

FCC PART 15.247 TEST REPORT

For

Shenzhen W.Rider Technology Co., Ltd.

RM821, Dingcheng International Building, Shennan Road, Shenzhen 518031, P. R. China

FCC ID: OMERDBTSPV2

Report Type: Original Report	Product Type: Bluetooth Speaker
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
SPECIAL ACCESSORIES.....	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	6
EXTERNAL I/O CABLE.....	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS.....	8
FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE).....	9
APPLICABLE STANDARD	9
FCC §15.203 – ANTENNA REQUIREMENT	10
APPLICABLE STANDARD	10
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	11
MEASUREMENT UNCERTAINTY.....	11
EUT SETUP.....	11
EMI TEST RECEIVER SETUP.....	12
TEST PROCEDURE	12
TEST EQUIPMENT LIST AND DETAILS.....	12
CORRECTED FACTOR & MARGIN CALCULATION	12
TEST RESULTS SUMMARY	13
TEST DATA	13
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS.....	16
APPLICABLE STANDARD	16
MEASUREMENT UNCERTAINTY.....	16
EUT SETUP.....	16
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	17
TEST PROCEDURE	17
CORRECTED AMPLITUDE & MARGIN CALCULATION	18
TEST EQUIPMENT LIST AND DETAILS.....	18
TEST RESULTS SUMMARY	18
TEST DATA	19
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST	21
APPLICABLE STANDARD	21
TEST PROCEDURE	21
TEST EQUIPMENT LIST AND DETAILS.....	21
TEST DATA	21

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH.....	28
APPLICABLE STANDARD	28
TEST PROCEDURE	28
TEST EQUIPMENT LIST AND DETAILS.....	28
TEST DATA	28
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST	34
APPLICABLE STANDARD	34
TEST PROCEDURE	34
TEST EQUIPMENT LIST AND DETAILS.....	34
TEST DATA	34
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	37
APPLICABLE STANDARD	37
TEST PROCEDURE	37
TEST EQUIPMENT LIST AND DETAILS.....	37
TEST DATA	37
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	53
APPLICABLE STANDARD	53
TEST PROCEDURE	53
TEST EQUIPMENT LIST AND DETAILS.....	53
TEST DATA	53
FCC §15.247(d) - BAND EDGES TESTING	55
APPLICABLE STANDARD	55
TEST PROCEDURE	55
TEST EQUIPMENT LIST AND DETAILS.....	55
TEST DATA	55
PRODUCT SIMILARITY DECLARATION LETTER.....	59

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Shenzhen W.Rider Technology Co., Ltd. 's product, model number: RD-S118BT (FCC ID: OMERDBTSPV2) or the "EUT" in this report was a *Bluetooth Speaker*, which was measured approximately: 25.0cm (L) x 10.0 cm (W) x 7.0 cm (H), rated with input voltage: DC 3.7V.

Note: The series product, model RD-S118BT, SBT603, RD-S115BT, RD-S109BT, RD-S068BT, RD-S071BT, RD-S076BT, RD-S079BT, RD-S615BT, RD-S617BT, RD-S616BT, RD-S058BT, RD-S068BT, RD-S626BT, RD-S069BT, RD-S067BT, RD-S089BT, RD-S059BT, RD-S039BT are identical schematics, the differences among them are the model name and color due to marketing purpose. Model RD-S118BT was selected for fully testing. The detailed information can be referred to the attached declaration letter which was stated and guaranteed by the applicant.

** All measurement and test data in this report was gathered from production sample serial number 1506018. (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2015-08-14.*

Objective

This test report is prepared on behalf of *Shenzhen W.Rider Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

No related grant.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz, and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

The Exercise Software was: BK3221 RF TEST.exe

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

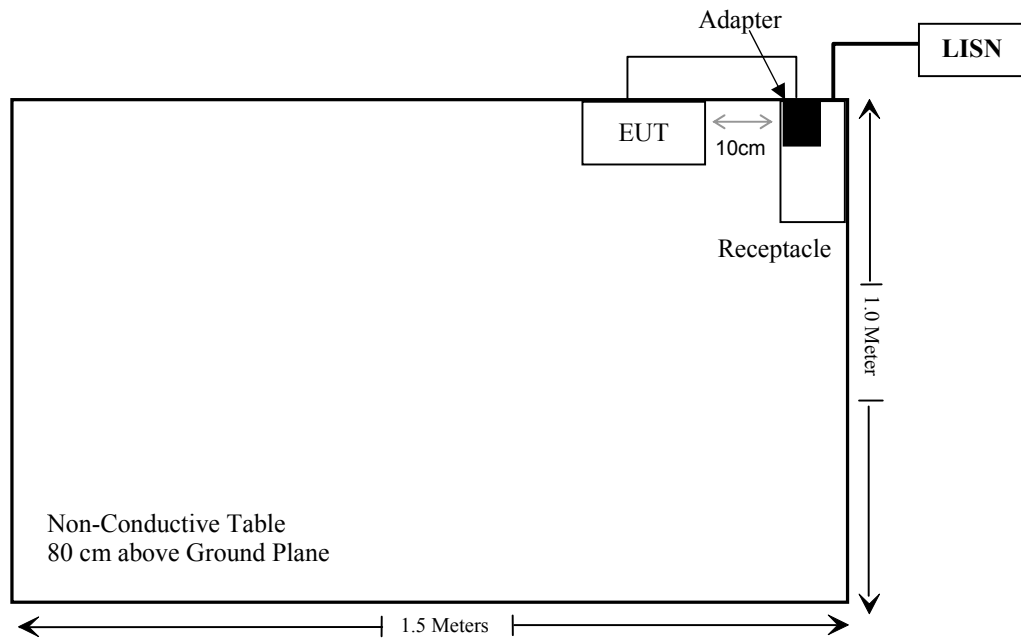
Manufacturer	Description	Model	Serial Number
I.T.E	Adapter	FW7713	N/A

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	0.8	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1) , §2.1091	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band edges	Compliance

FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i) and subpart §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Ave. eraging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BT	2402	0	1.0	-0.58	0.87	20	0.00017	1.0

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has a PCB print antenna arrangement for bluetooth, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

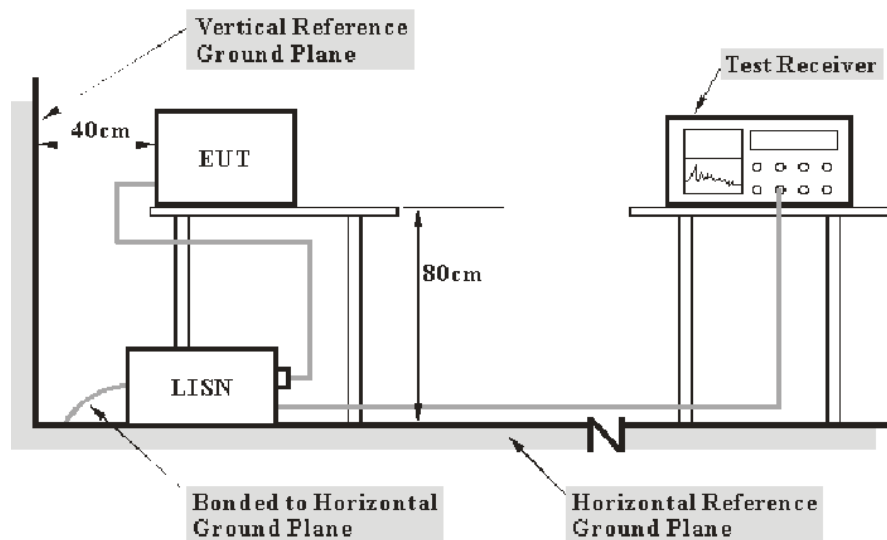
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.4-2009. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2015-06-03	2016-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2014-12-01	2015-12-01
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2015-08-22	2016-08-22
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-05-14	2016-05-13
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, the worst margin reading as below:

24.6 dB at 21.270450 MHz in the **Line** conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

In BACL, $U_{(L_m)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

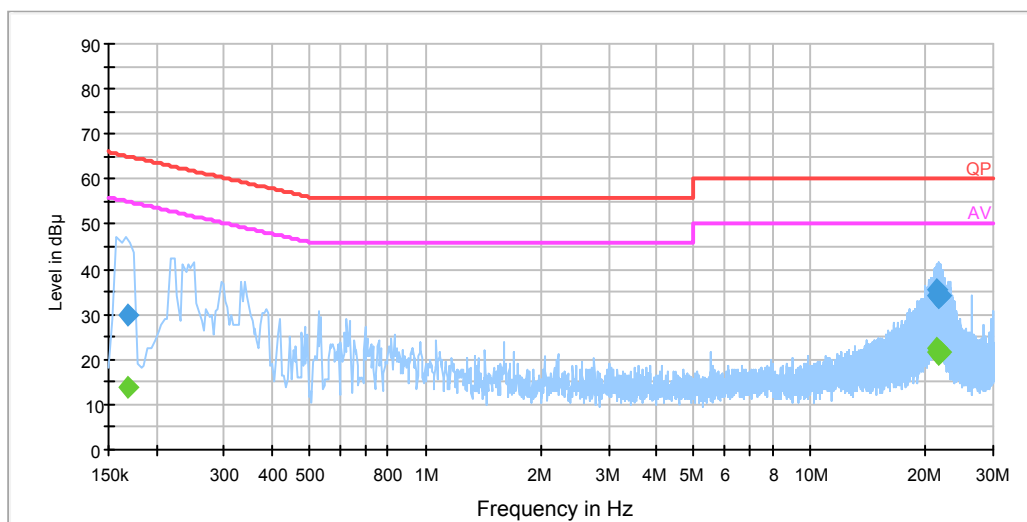
Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jay Li on 2015-09-07.

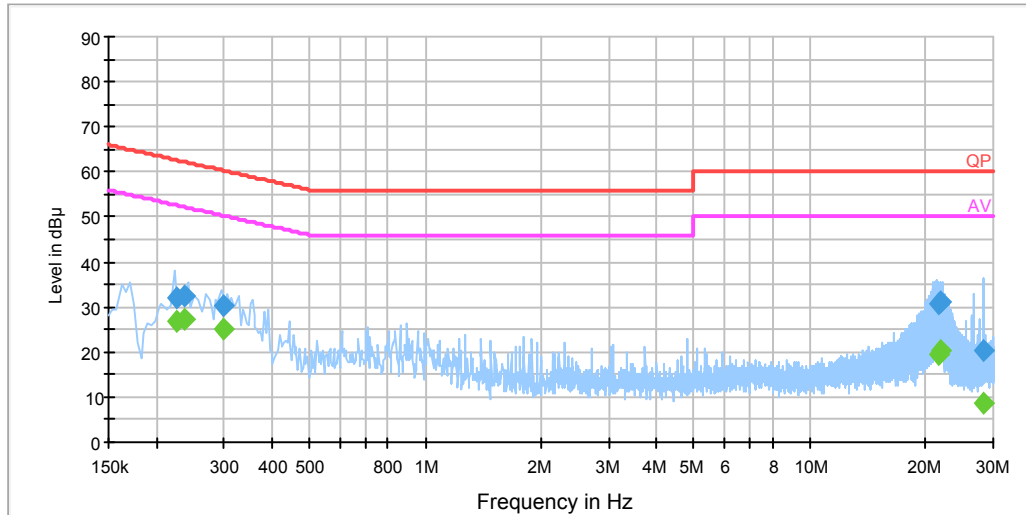
EUT operation mode: Transmitting

AC 120V/60 Hz, Line

EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.169500	30.0	20.0	65.0	35.0	QP
0.169500	13.7	20.0	55.0	41.3	Ave.
21.270450	35.4	20.1	60.0	24.6	QP
21.270450	22.7	20.1	50.0	27.3	Ave.
21.461810	34.3	20.1	60.0	25.7	QP
21.461810	21.5	20.1	50.0	28.5	Ave.
21.526850	34.0	20.1	60.0	26.0	QP
21.526850	21.3	20.1	50.0	28.7	Ave.
21.645410	33.8	20.1	60.0	26.2	QP
21.645410	21.2	20.1	50.0	28.8	Ave.
21.784050	34.1	20.1	60.0	25.9	QP
21.784050	21.6	20.1	50.0	28.4	Ave.

AC 120V/60 Hz, Neutral**EMI Auto Test N**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.225500	32.2	20.0	62.6	30.4	QP
0.225500	26.8	20.0	52.6	25.8	Ave.
0.237500	32.3	20.0	62.2	29.9	QP
0.237500	27.1	20.0	52.2	25.1	Ave.
0.297500	30.2	19.9	60.3	30.1	QP
0.297500	25.0	19.9	50.3	25.3	Ave.
21.589270	30.8	20.1	60.0	29.2	QP
21.589270	19.5	20.1	50.0	30.5	Ave.
21.834710	31.2	20.1	60.0	28.8	QP
21.834710	20.1	20.1	50.0	29.9	Ave.
28.359730	20.5	20.2	60.0	39.5	QP
28.359730	8.5	20.2	50.0	41.5	Ave.

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

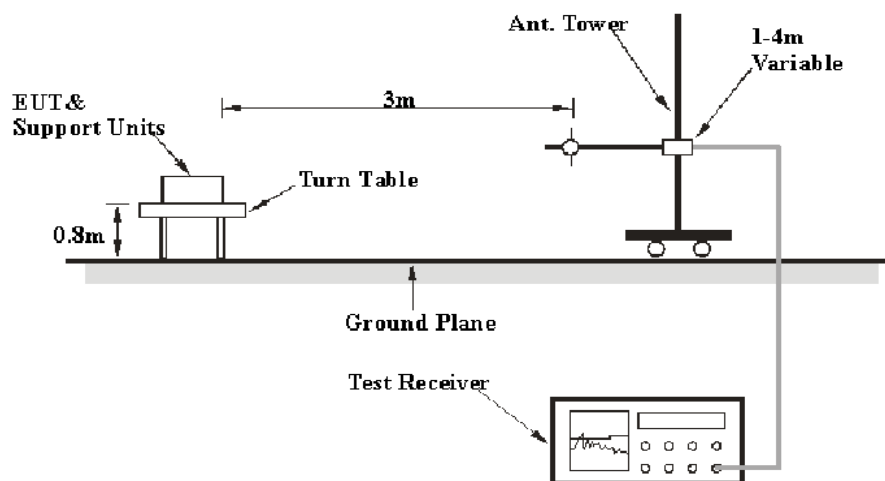
Measurement Uncertainty

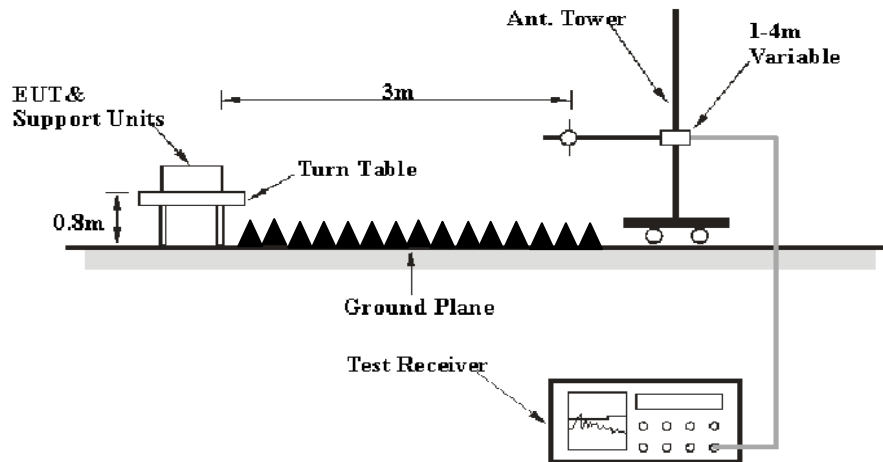
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz, and 4.92 dB for above 1GHz. And this uncertainty will not be taken into consideration for the test data recorded in the report.

EUT Setup

Below 1 GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209 and FCC 15.247 limits.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2016-05-05
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-06-18	2017-06-17
Mini	Amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-22
A.H. System	Horn Antenna	SAS-200/571	135	2015-02-10	2016-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
TDK	Chamber	Chamber B	1#	2015-07-22	2016-07-22
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2015-08-03	2016-08-03
R&S	Auto test Software	EMC32	V9.10	--	--

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

10.38 dB at 9764.00 MHz in the Vertical polarization for Middle Channel

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(L_m)}$ is less than $+ U_{cispr}$, if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Jay Li on 2015-09-07.

EUT operation mode: Transmitting

30MHz~25GHz (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK mode, the worst case is BDR Mode (GFSK))

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2402 MHz)									
112.09	44.01	QP	62	1.5	H	-13.8	30.21	43.5	13.29
2402.00	86.05	PK	303	1.8	H	4.97	91.02	/	/
2402.00	75.25	Ave.	303	1.8	H	4.97	80.22	/	/
2402.00	83.51	PK	317	2.0	V	4.97	88.48	/	/
2402.00	73.97	Ave.	317	2.0	V	4.97	78.94	/	/
2383.37	55.32	PK	79	1.6	V	4.97	60.29	74	13.71
2383.37	23.74	Ave.	79	1.6	V	4.97	28.71	54	25.29
2483.50	39.59	PK	249	1.0	V	6.29	45.88	74	28.12
2483.50	29.54	Ave.	249	1.0	V	6.29	35.83	54	18.17
2484.32	36.57	PK	51	1.1	V	6.29	42.86	74	31.14
2484.32	21.71	Ave.	51	1.1	V	6.29	28.00	54	26.00
4804.00	35.97	PK	339	1.6	V	16.92	52.89	74	21.11
4804.00	22.23	Ave.	339	1.6	V	16.92	39.15	54	14.85
7206.00	35.14	PK	268	1.8	V	19.08	54.22	74	19.78
7206.00	21.11	Ave.	268	1.8	V	19.08	40.19	54	13.81
9608.00	34.08	PK	42	2.4	V	22.72	56.80	74	17.20
9608.00	19.35	Ave.	42	2.4	V	22.72	42.07	54	11.93

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2441 MHz)									
112.09	43.29	QP	62	1.5	H	-13.8	29.49	43.5	14.01
2441.00	86.99	PK	275	1.5	H	4.97	91.96	/	/
2441.00	76.61	Ave.	275	1.5	H	4.97	81.58	/	/
2441.00	83.11	PK	256	1.8	V	4.97	88.08	/	/
2441.00	73.70	Ave.	256	1.8	V	4.97	78.67	/	/
2383.37	38.66	PK	18	1.1	V	4.97	43.63	74	30.37
2383.37	24.53	Ave.	18	1.1	V	4.97	29.50	54	24.50
2483.50	38.26	PK	44	1.6	V	6.29	44.55	74	29.45
2483.50	28.17	Ave.	44	1.6	V	6.29	34.46	54	19.54
2484.32	36.30	PK	25	2.4	V	6.29	42.59	74	31.41
2484.32	21.03	Ave.	25	2.4	V	6.29	27.32	54	26.68
4882.00	36.31	PK	181	2.1	V	16.91	53.22	74	20.78
4882.00	21.78	Ave.	181	2.1	V	16.91	38.69	54	15.31
7323.00	35.68	PK	64	2.4	V	19.40	55.08	74	18.92
7323.00	21.56	Ave.	64	2.4	V	19.40	40.96	54	13.04
9764.00	34.13	PK	215	1.7	V	23.79	57.92	74	16.08
9764.00	19.83	Ave.	215	1.7	V	23.79	43.62	54	10.38
High Channel (2480 MHz)									
112.09	44.35	QP	62	1.5	H	-13.8	30.55	43.5	12.95
2480.00	85.06	PK	339	2.4	H	6.29	91.35	/	/
2480.00	76.68	Ave.	339	2.4	H	6.29	82.97	/	/
2480.00	83.74	PK	188	2.0	V	6.29	90.03	/	/
2480.00	73.23	Ave.	188	2.0	V	6.29	79.52	/	/
2383.37	38.28	PK	358	2.4	V	4.97	43.25	74	30.75
2383.37	24.48	Ave.	358	2.4	V	4.97	29.45	54	24.55
2483.50	56.26	PK	287	2.1	V	6.29	62.55	74	11.45
2483.50	29.56	Ave.	287	2.1	V	6.29	35.85	54	18.15
2484.32	37.19	PK	119	2.5	V	6.29	43.48	74	30.52
2484.32	21.87	Ave.	119	2.5	V	6.29	28.16	54	25.84
4960.00	36.45	PK	221	1.7	V	17.91	54.36	74	19.64
4960.00	22.17	Ave.	221	1.7	V	17.91	40.08	54	13.92
7440.00	36.38	PK	20	1.8	V	18.34	54.72	74	19.28
7440.00	20.28	Ave.	20	1.8	V	18.34	38.62	54	15.38
9920.00	35.00	PK	177	1.9	V	23.79	58.79	74	15.21
9920.00	19.61	Ave.	177	1.9	V	23.79	43.40	54	10.60

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST**Applicable Standard**

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Test Procedure

1. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace.
3. Measure the channel separation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jay Li on 2015-09-02.

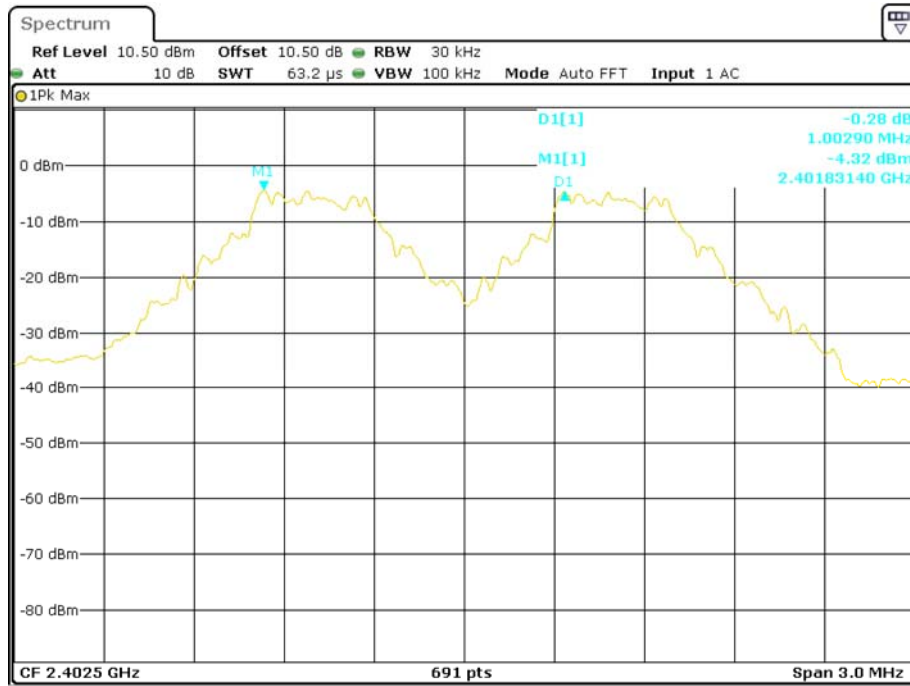
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table and plots

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	$\geq$ Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.003	0.699	Pass
	Adjacent	2403			
	Middle	2441	1.003	0.708	Pass
	Adjacent	2442			
	High	2480	1.003	0.695	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.003	0.843	Pass
	Adjacent	2403			
	Middle	2441	1.003	0.833	Pass
	Adjacent	2442			
	High	2480	1.003	0.793	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.003	0.820	Pass
	Adjacent	2403			
	Middle	2441	1.003	0.832	Pass
	Adjacent	2442			
	High	2480	1.003	0.828	Pass
	Adjacent	2479			

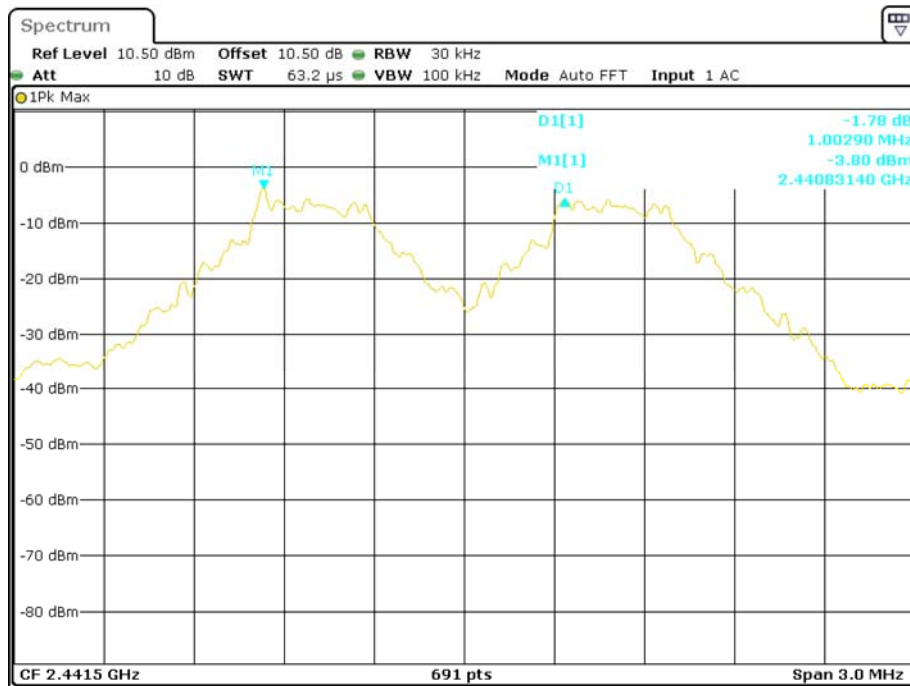
Note: Limit = 20 dB bandwidth *2/3

BDR (GFSK): Low Channel

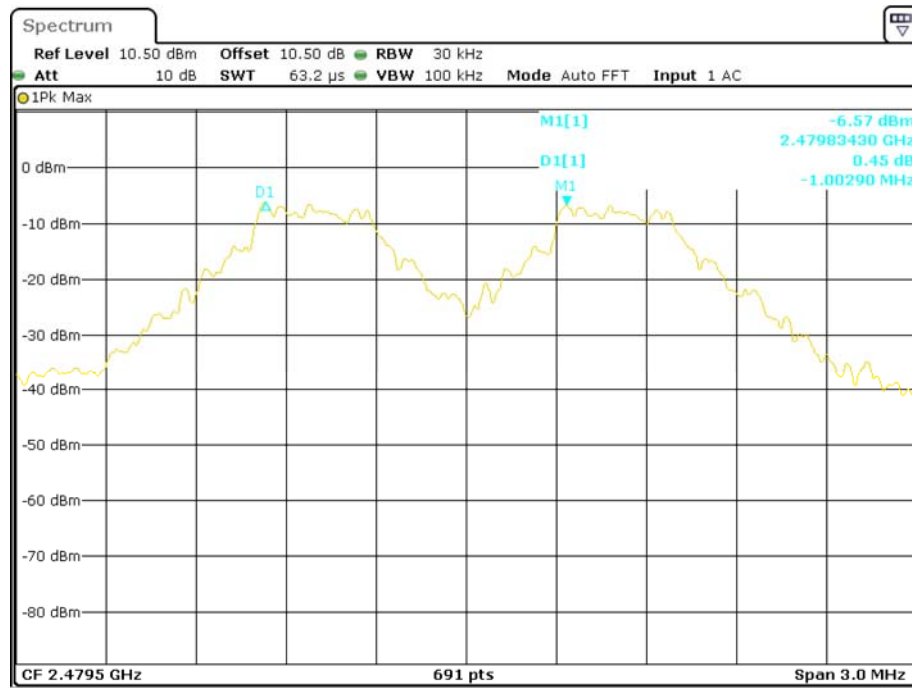


Date: 2.SEP.2015 20:37:05

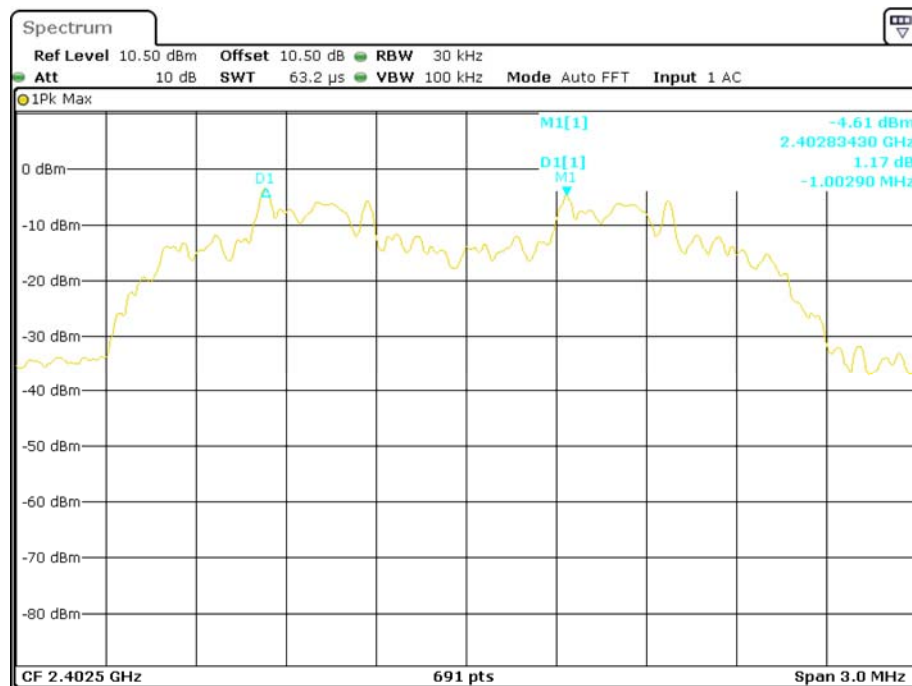
BDR (GFSK): Middle Channel



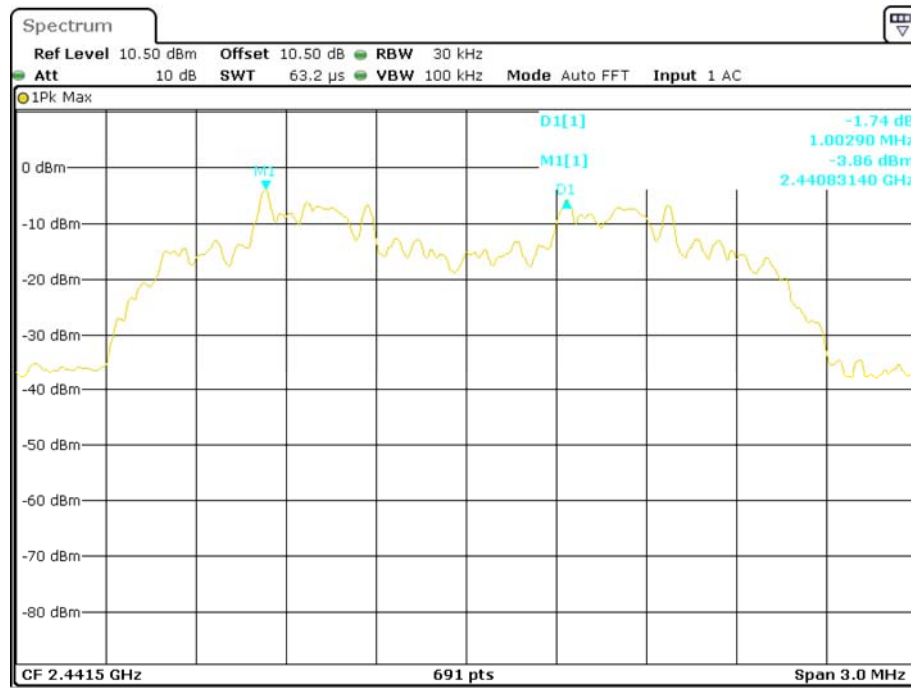
Date: 2.SEP.2015 20:37:51

BDR (GFSK): High Channel

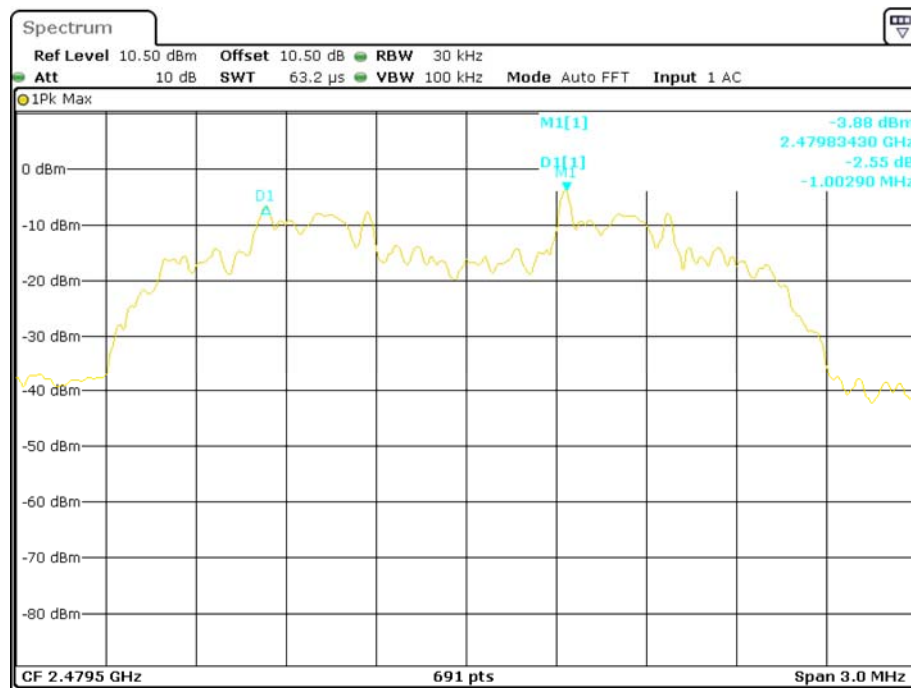
Date: 2.SEP.2015 20:38:38

EDR ($\pi/4$ -DQPSK): Low Channel

Date: 2.SEP.2015 20:41:03

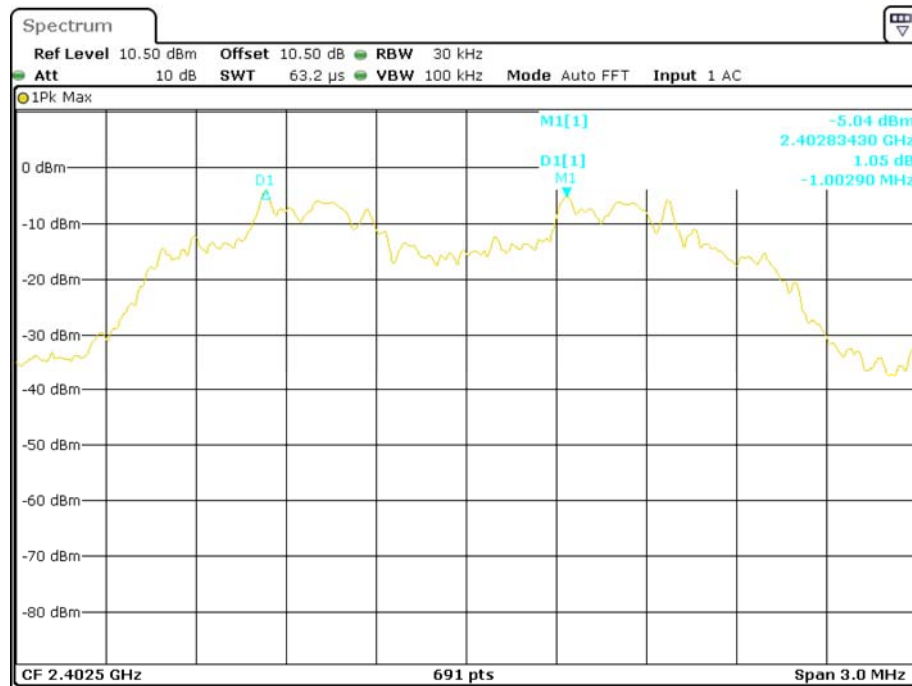
EDR ($\pi/4$ -DQPSK): Middle Channel

Date: 2.SEP.2015 20:40:09

EDR ($\pi/4$ -DQPSK): High Channel

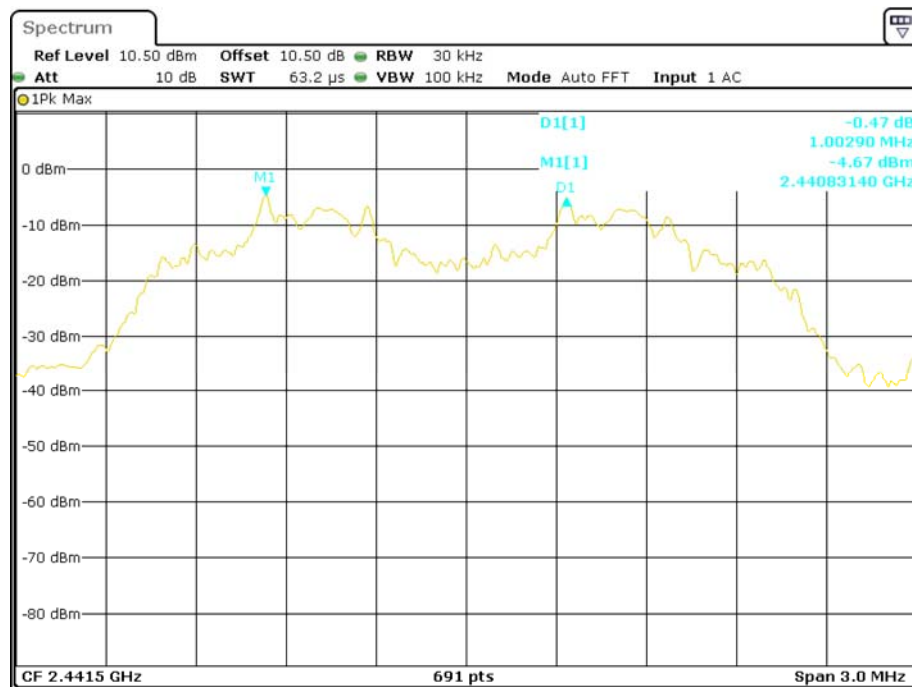
Date: 2.SEP.2015 20:39:15

EDR (8DPSK): Low Channel



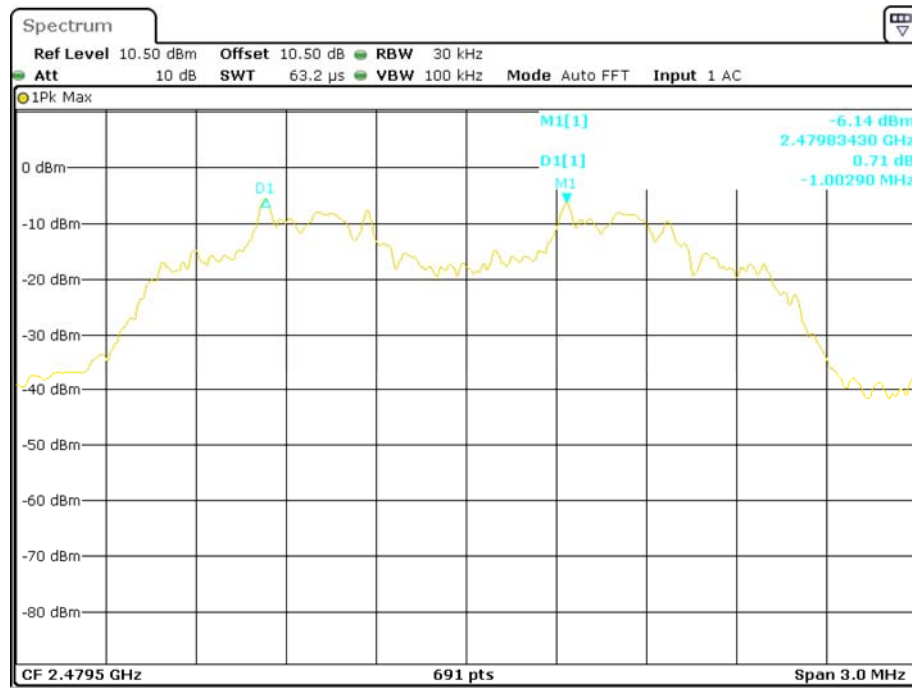
Date: 2.SEP.2015 20:41:48

EDR (8DPSK): Middle Channel



Date: 2.SEP.2015 20:42:33

EDR (8DPSK): High Channel



Date: 2.SEP.2015 20:47:32

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH**Applicable Standard**

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

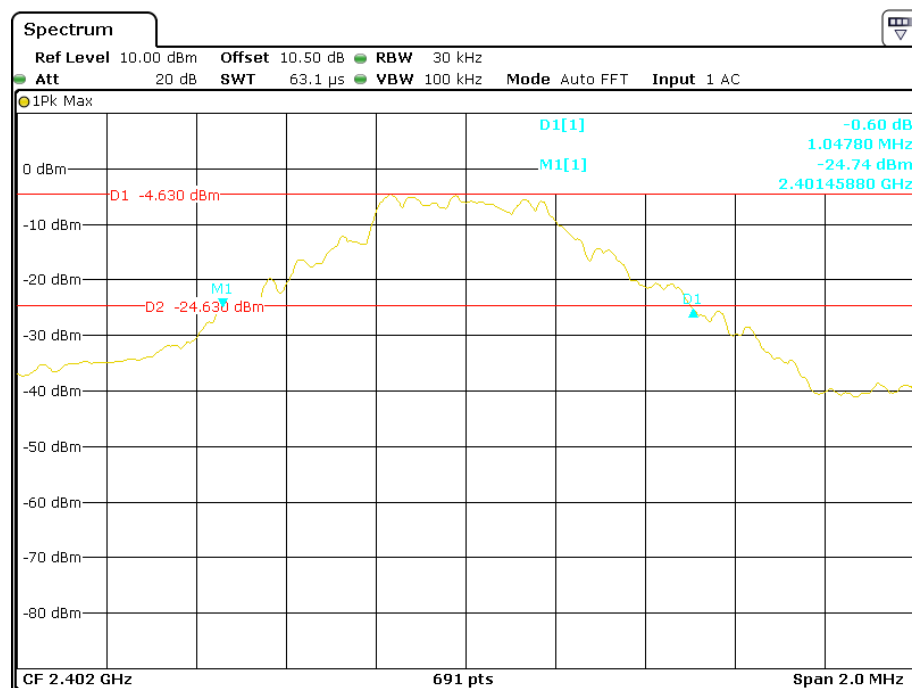
The testing was performed by Jay Li on 2015-09-08.

EUT operation mode: Transmitting.

Test Result: Compliance. Please refer to following table and plots

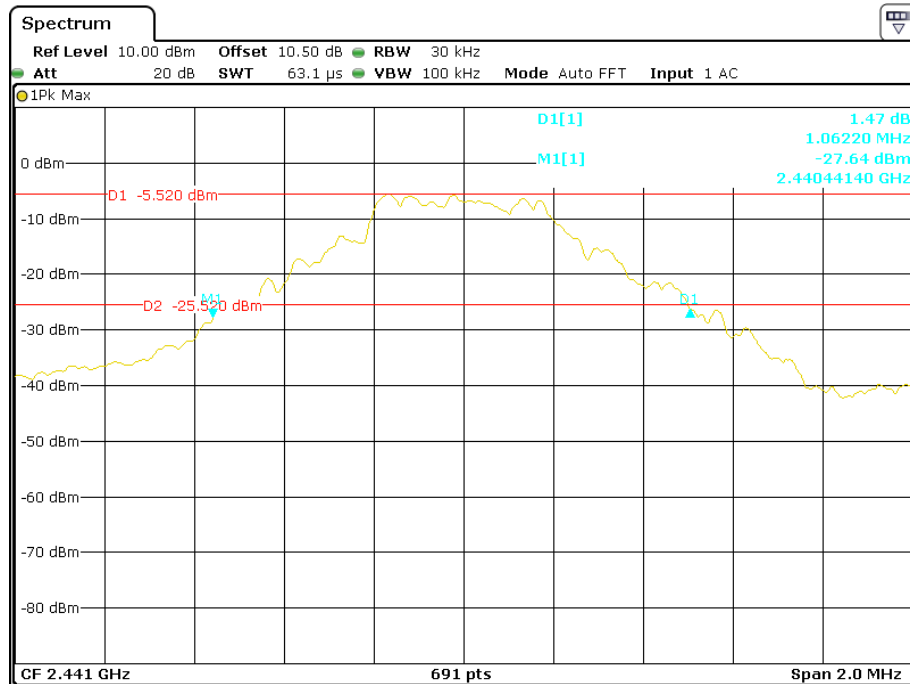
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	1.048
	Middle	2441	1.062
	High	2480	1.042
EDR ($\pi/4$ -DQPSK)	Low	2402	1.265
	Middle	2441	1.250
	High	2480	1.190
EDR (8DPSK)	Low	2402	1.230
	Middle	2441	1.248
	High	2480	1.242

BDR (GFSK): Low Channel



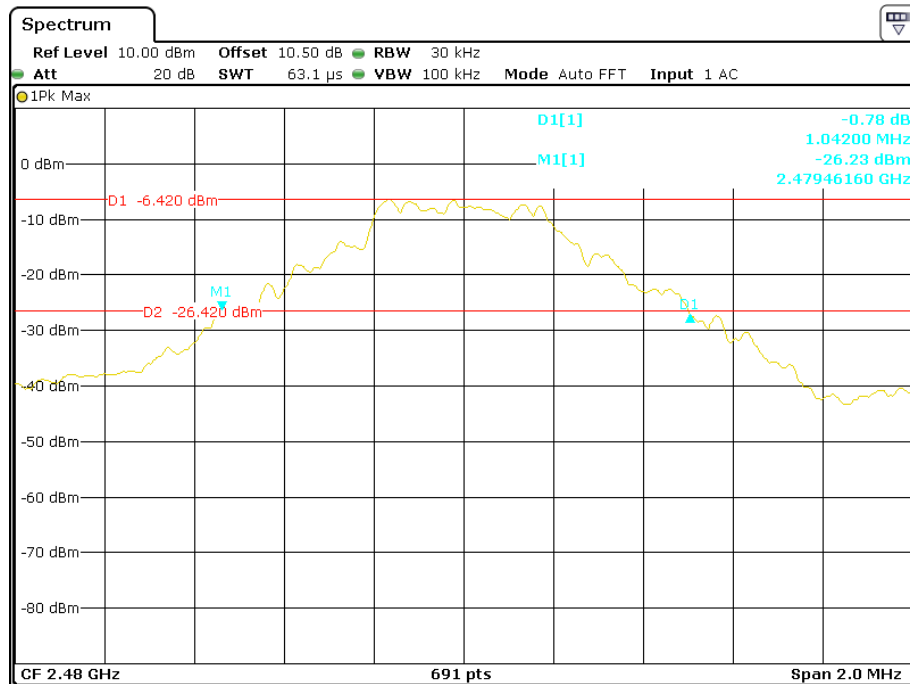
Date: 8.SEP.2015 19:19:03

BDR (GFSK): Middle Channel



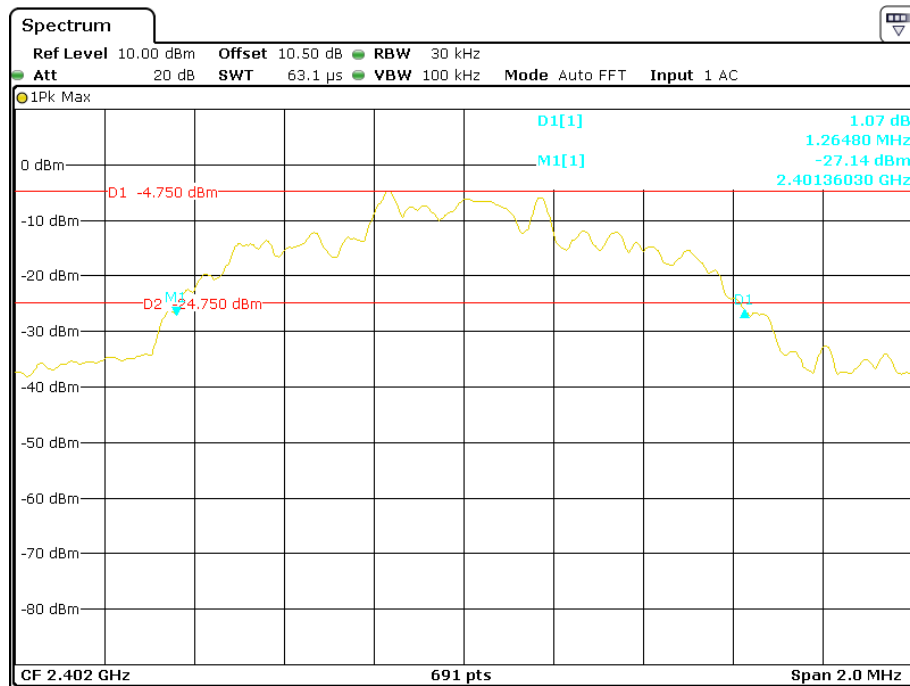
Date: 8.SEP.2015 19:20:45

BDR (GFSK): High Channel



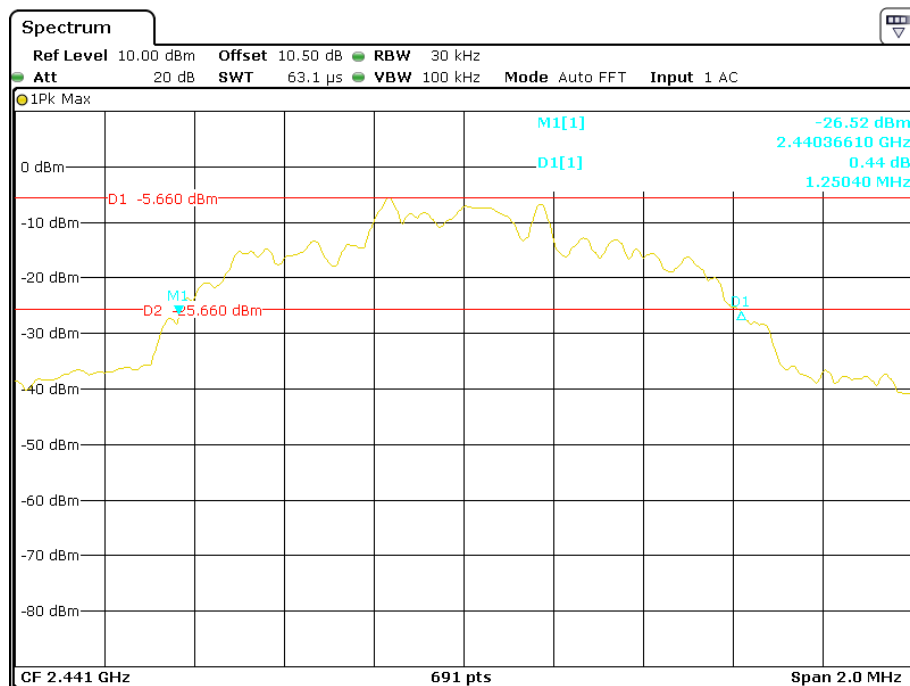
Date: 8.SEP.2015 19:22:15

EDR ($\pi/4$ -DQPSK): Low Channel

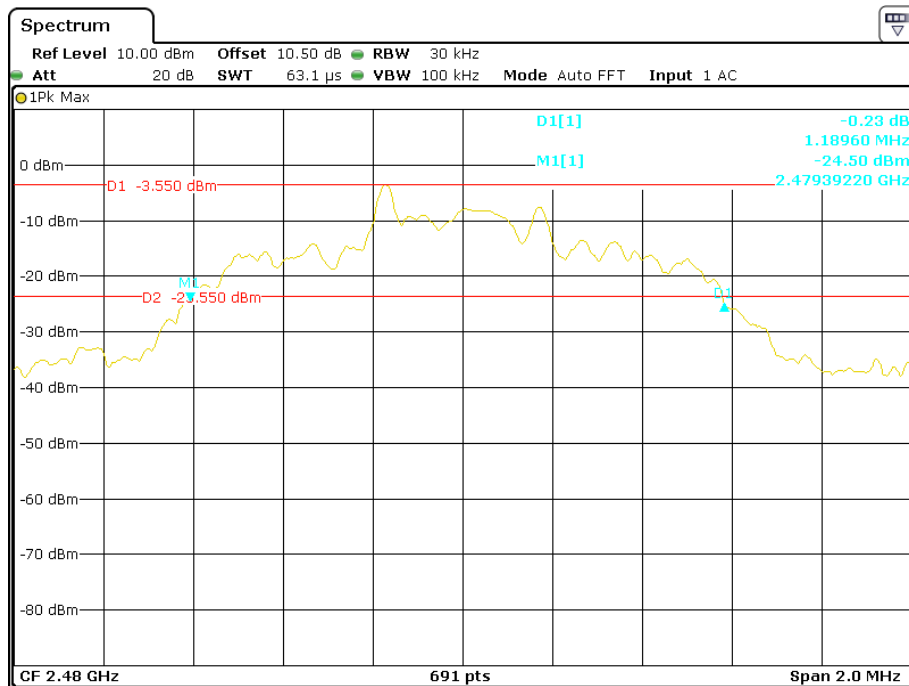


Date: 8.SEP.2015 19:38:15

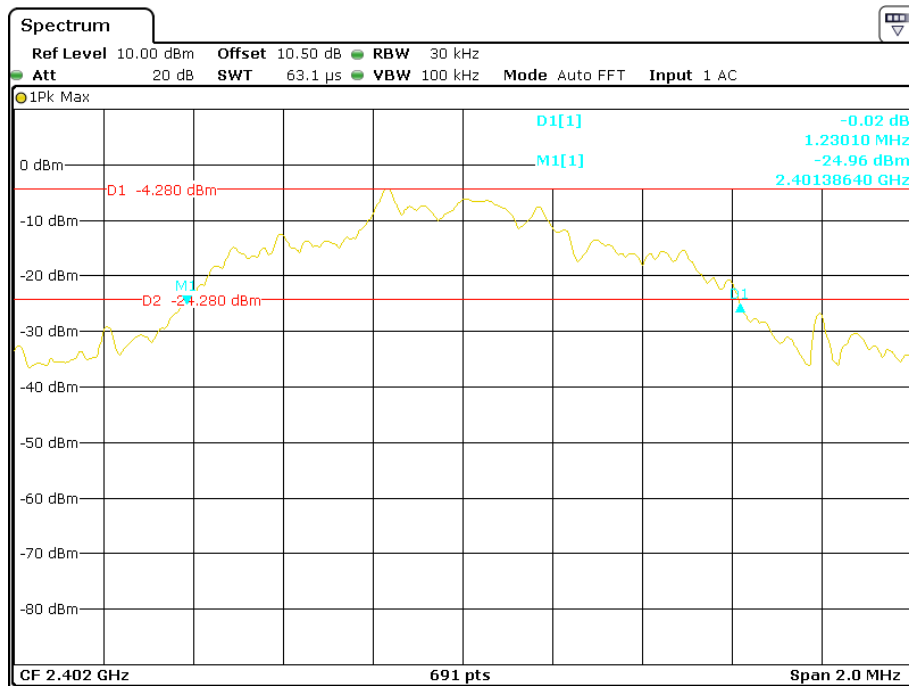
EDR ($\pi/4$ -DQPSK): Middle Channel



Date: 8.SEP.2015 19:35:39

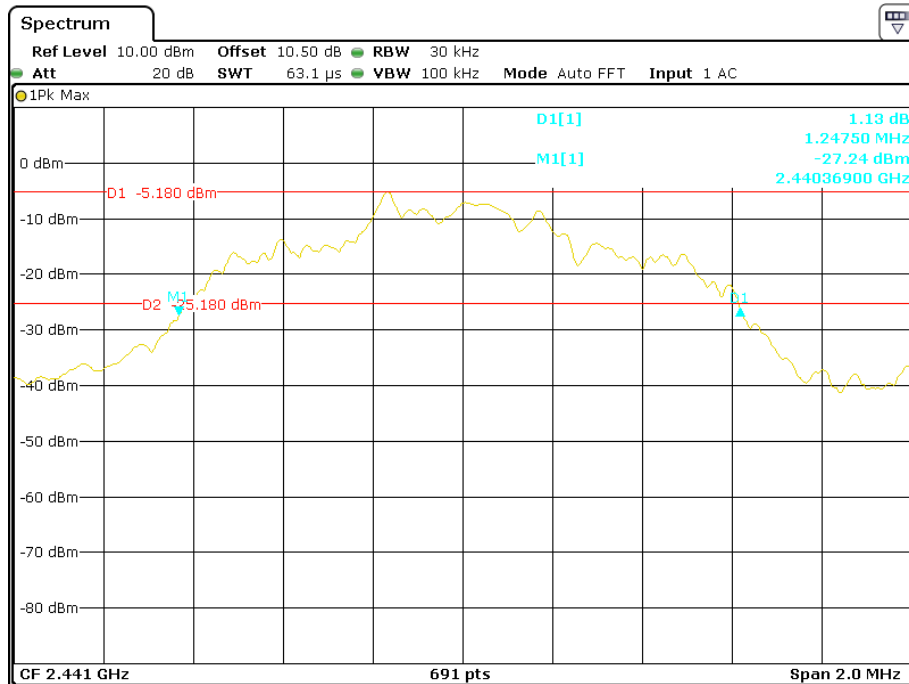
EDR ($\pi/4$ -DQPSK): High Channel

Date: 8.SEP.2015 19:25:20

EDR (8DPSK): Low Channel

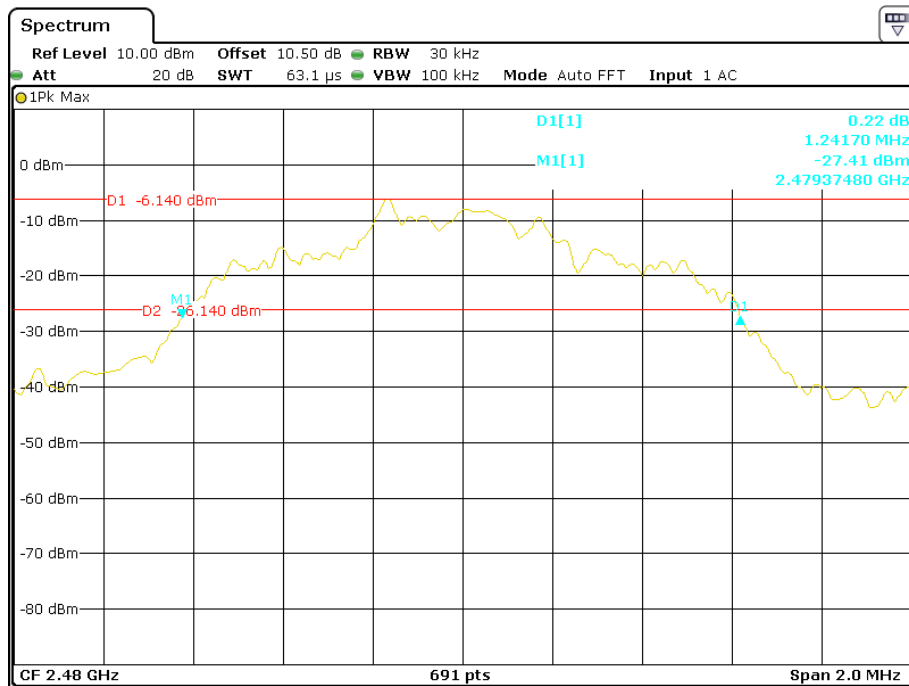
Date: 8.SEP.2015 19:40:27

EDR (8DPSK): Middle Channel



Date: 8.SEP.2015 19:42:21

EDR (8DPSK): High Channel



Date: 8.SEP.2015 19:43:17

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST**Applicable Standard**

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the max-hold function record the quantity of the channel.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

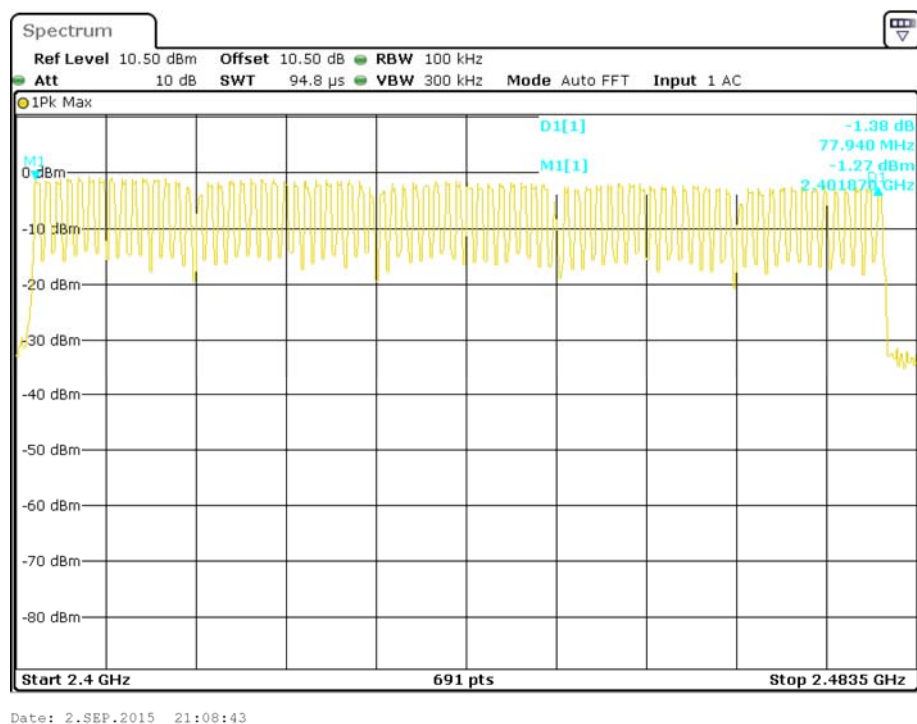
The testing was performed by Jay Li on 2015-09-02.

EUT operation mode: Transmitting

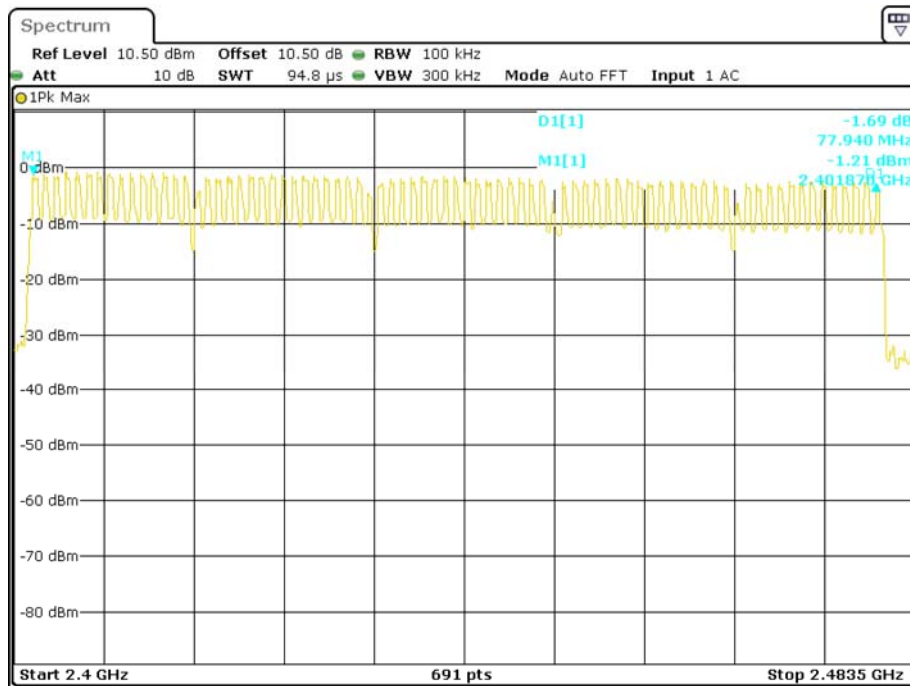
Test Result: Compliance. Please refer to following table and plots

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥ 15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥ 15
EDR (8DPSK)	2400-2483.5	79	≥ 15

BDR (GFSK): Number of Hopping Channels

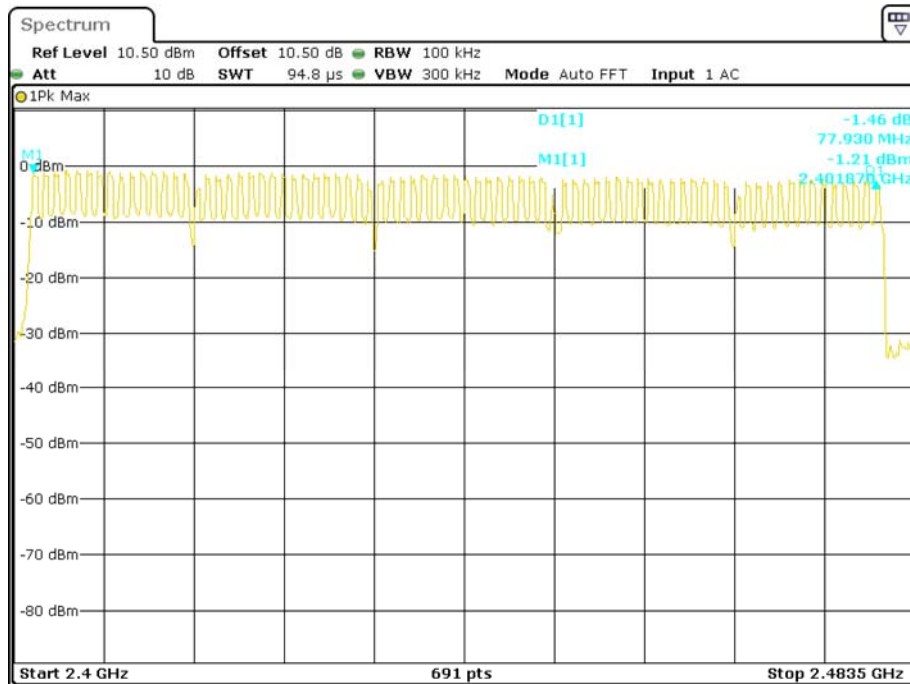


EDR ($\pi/4$ -DQPSK): Number of Hopping Channels



Date: 2.SEP.2015 21:06:14

EDR (8DPSK): Number of Hopping Channels



Date: 2.SEP.2015 21:02:39

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWEELL TIME)**Applicable Standard**

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 X channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

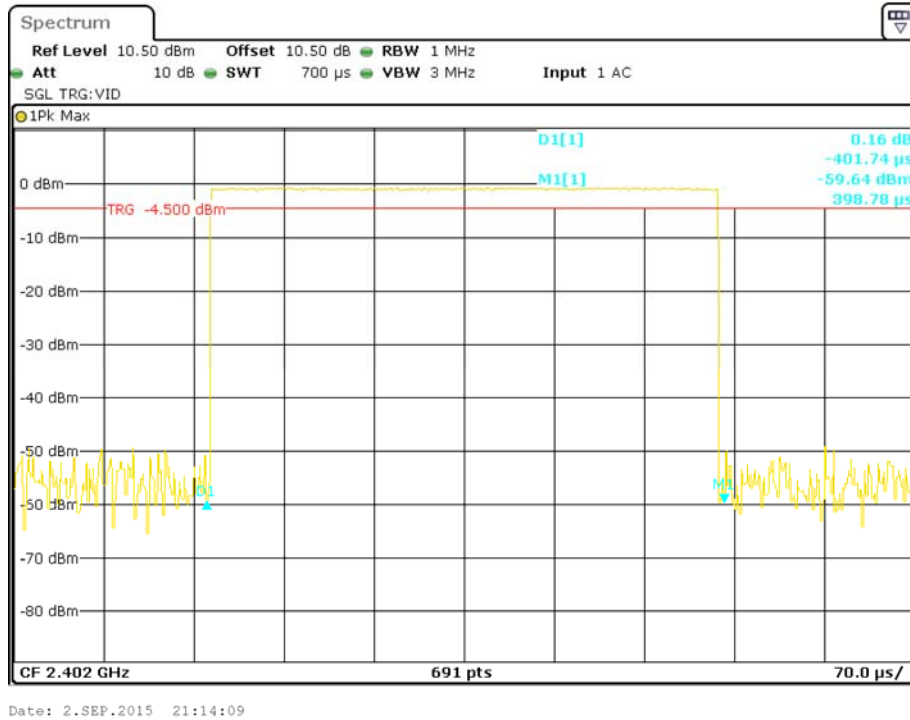
The testing was performed by Jay Li on 2015-09-02.

EUT operation mode: Transmitting

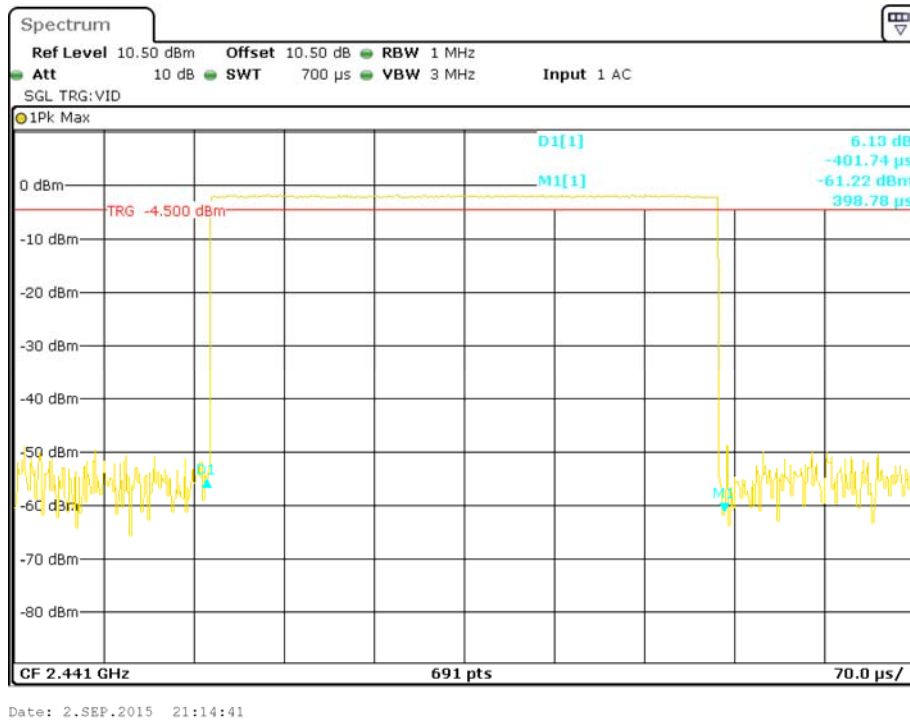
Test Result: Compliance. Please refer to following table and plots

Mode		Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
BDR (GFSK)	DH 1	Low	0.402	0.129	0.4	Pass
		Middle	0.402	0.129	0.4	Pass
		High	0.402	0.129	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.665	0.266	0.4	Pass
		Middle	1.665	0.266	0.4	Pass
		High	1.665	0.266	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.940	0.314	0.4	Pass
		Middle	2.940	0.314	0.4	Pass
		High	2.940	0.314	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH 1	Low	0.400	0.128	0.4	Pass
		Middle	0.400	0.128	0.4	Pass
		High	0.400	0.128	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6s				
	2DH 3	Low	1.665	0.266	0.4	Pass
		Middle	1.665	0.266	0.4	Pass
		High	1.665	0.266	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6s				
	2DH 5	Low	2.940	0.314	0.4	Pass
		Middle	2.940	0.314	0.4	Pass
		High	2.940	0.314	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6s				
EDR (8DPSK)	3DH 1	Low	0.400	0.128	0.4	Pass
		Middle	0.400	0.128	0.4	Pass
		High	0.400	0.128	0.4	Pass
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6s				
	3DH 3	Low	1.665	0.266	0.4	Pass
		Middle	1.665	0.266	0.4	Pass
		High	1.665	0.266	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6s				
	3DH 5	Low	2.940	0.314	0.4	Pass
		Middle	2.940	0.314	0.4	Pass
		High	2.940	0.314	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6s				

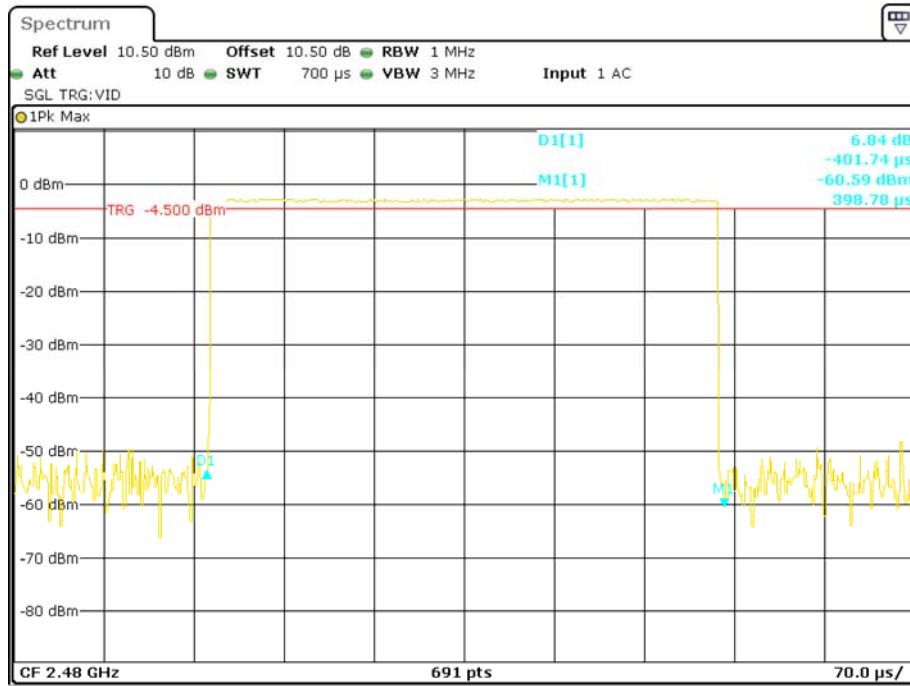
BDR (GFSK): Pulse time, Low Channel, DH1



Pulse time, Middle Channel, DH1

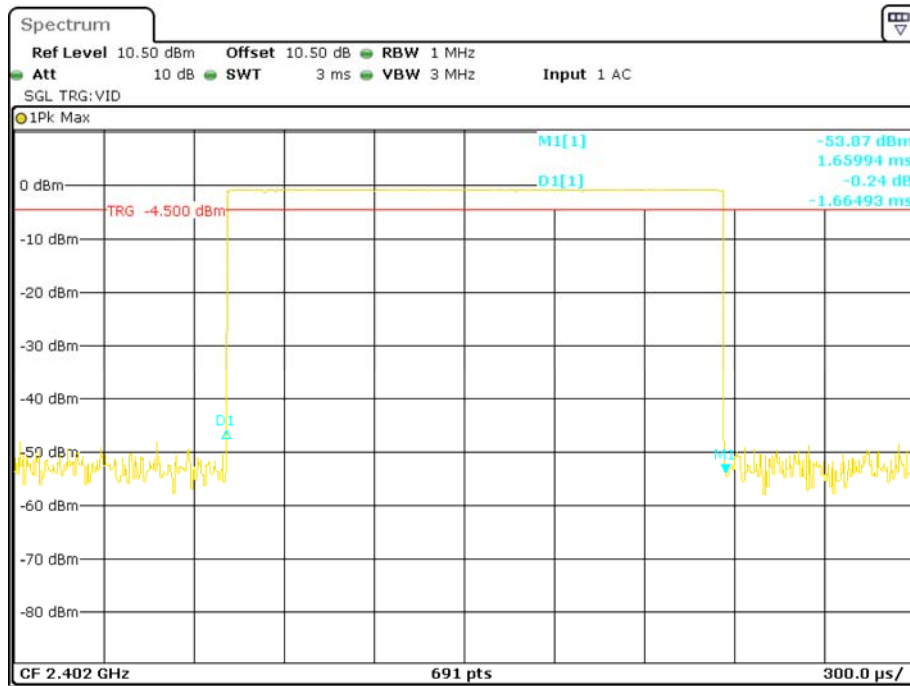


Pulse time, High Channel, DH1



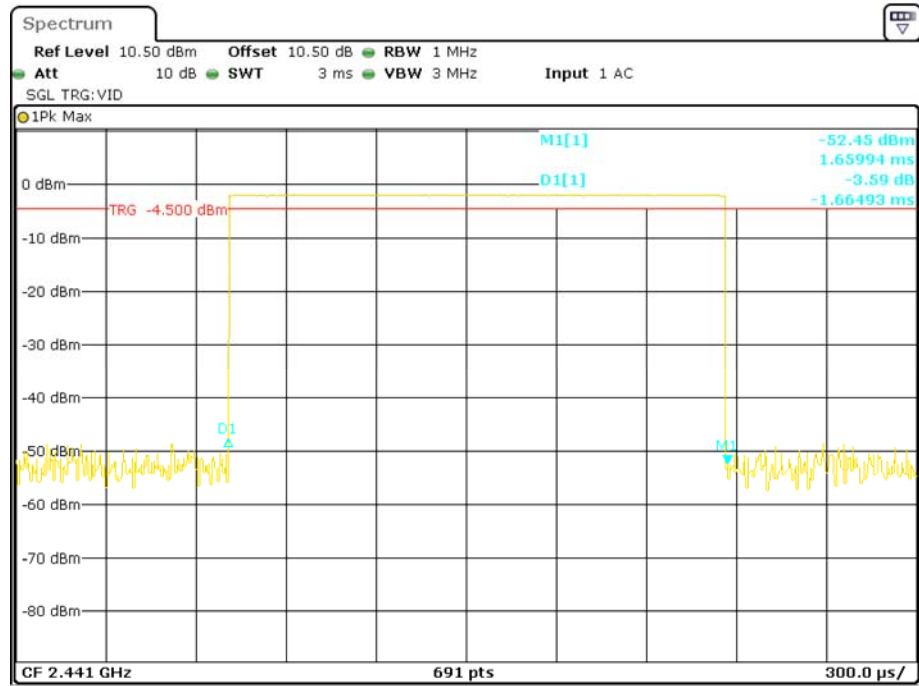
Date: 2.SEP.2015 21:15:01

Pulse time, Low Channel, DH3



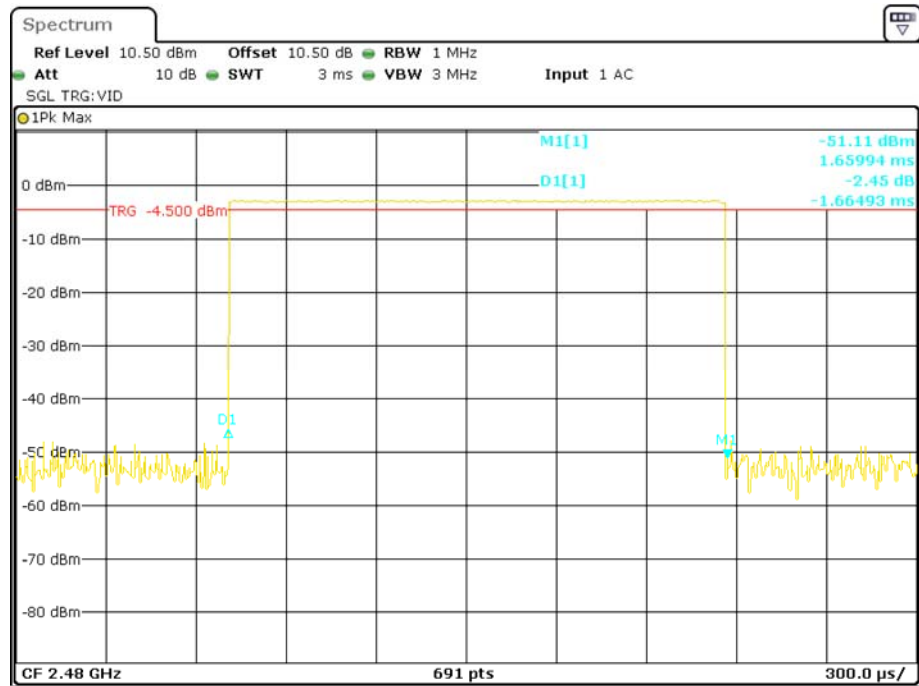
Date: 2.SEP.2015 21:23:59

Pulse time, Middle Channel, DH3



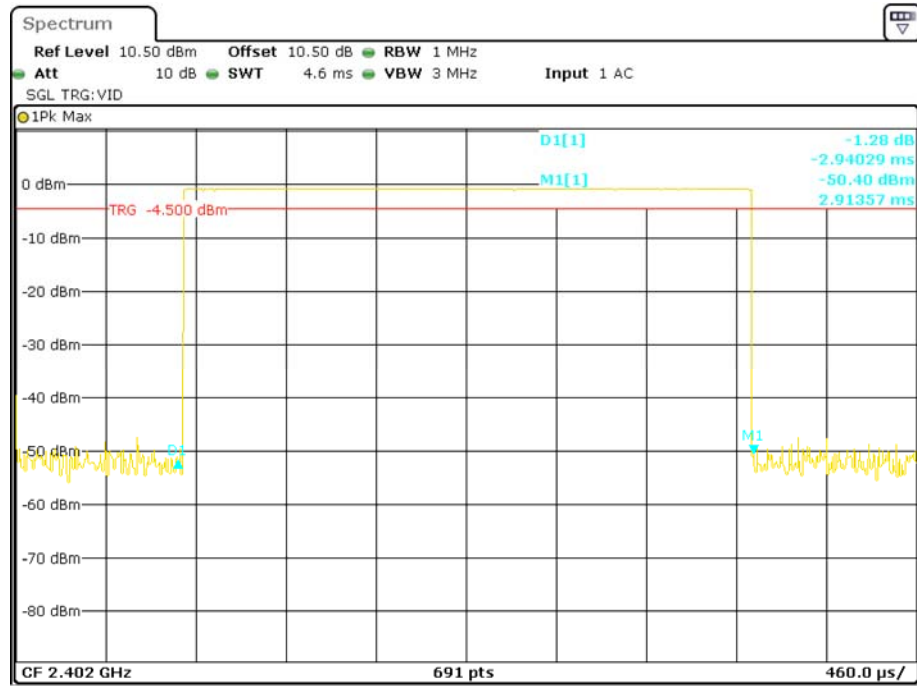
Date: 2.SEP.2015 21:23:36

Pulse time, High Channel, DH3



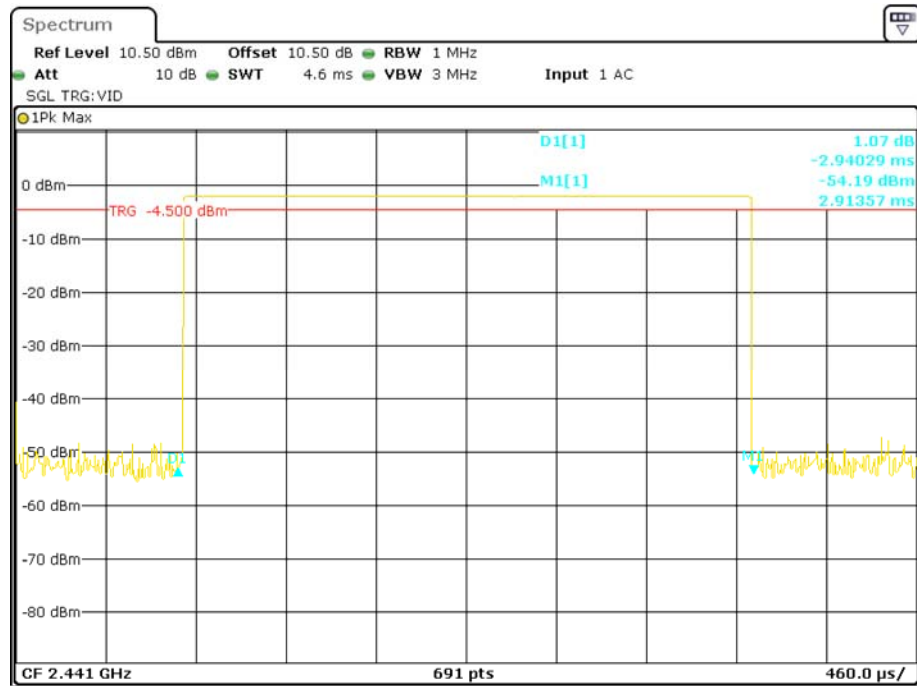
Date: 2.SEP.2015 21:23:05

Pulse time, Low Channel, DH5

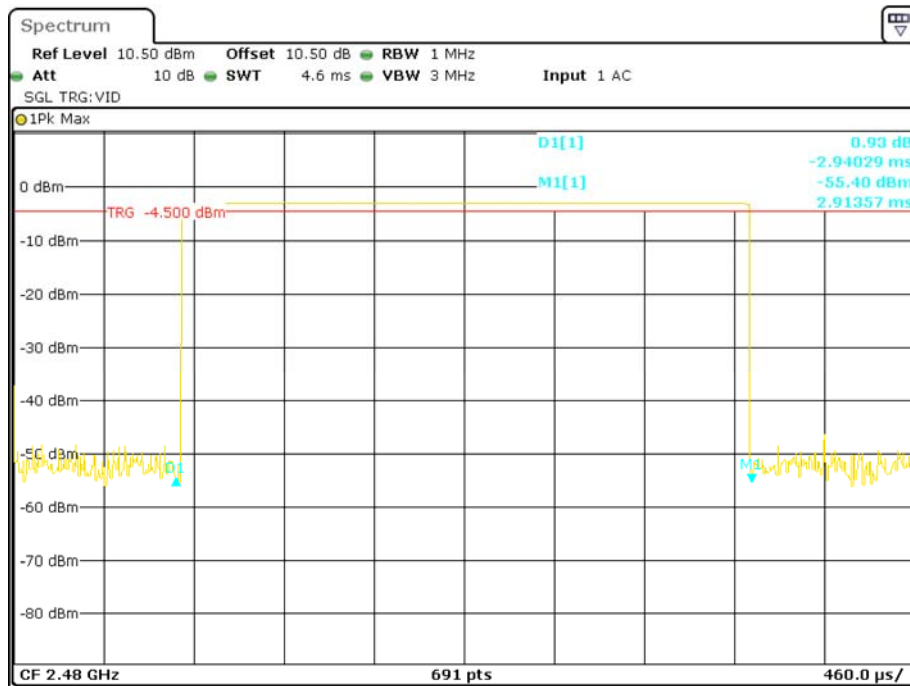


Date: 2.SEP.2015 21:28:10

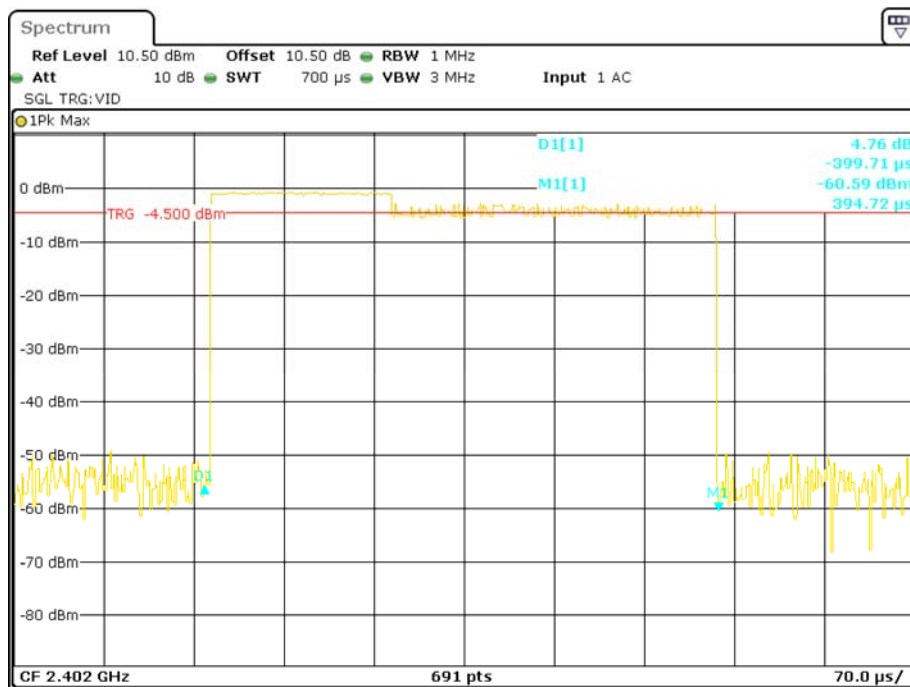
Pulse time, Middle Channel, DH5



Date: 2.SEP.2015 21:27:41

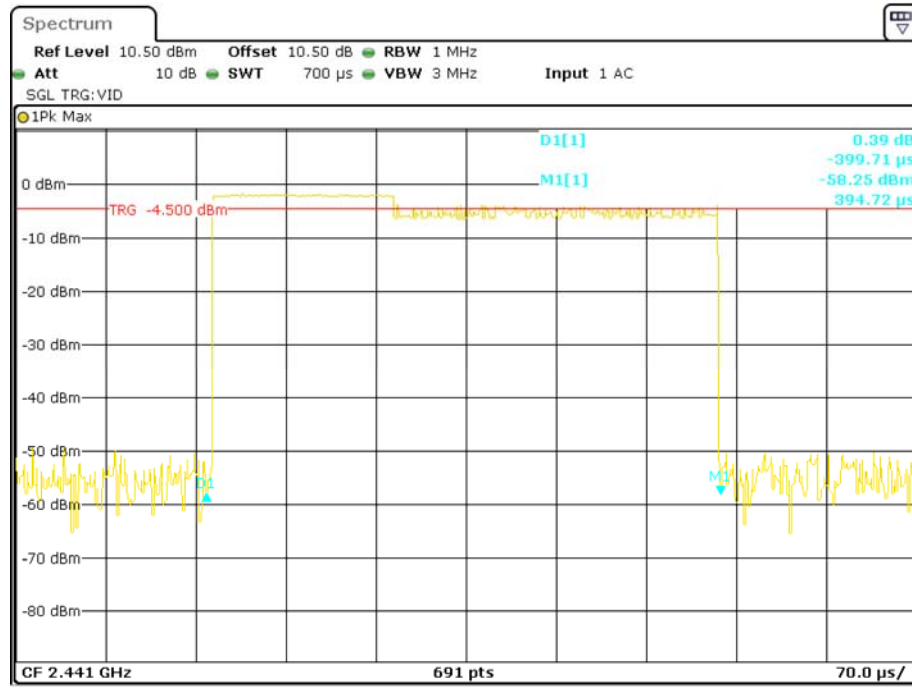
Pulse time, High Channel, DH5

Date: 2.SEP.2015 21:28:30

**EDR ($\pi/4$ -DQPSK):
Pulse time, Low Channel, 2DH1**

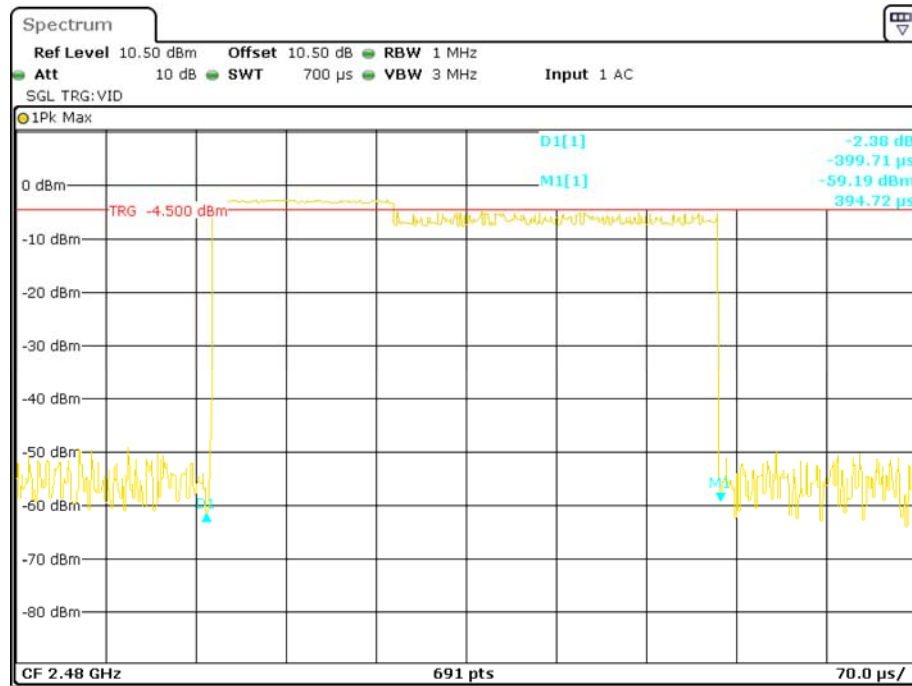
Date: 2.SEP.2015 21:17:34

Pulse time, Middle Channel, 2DH1



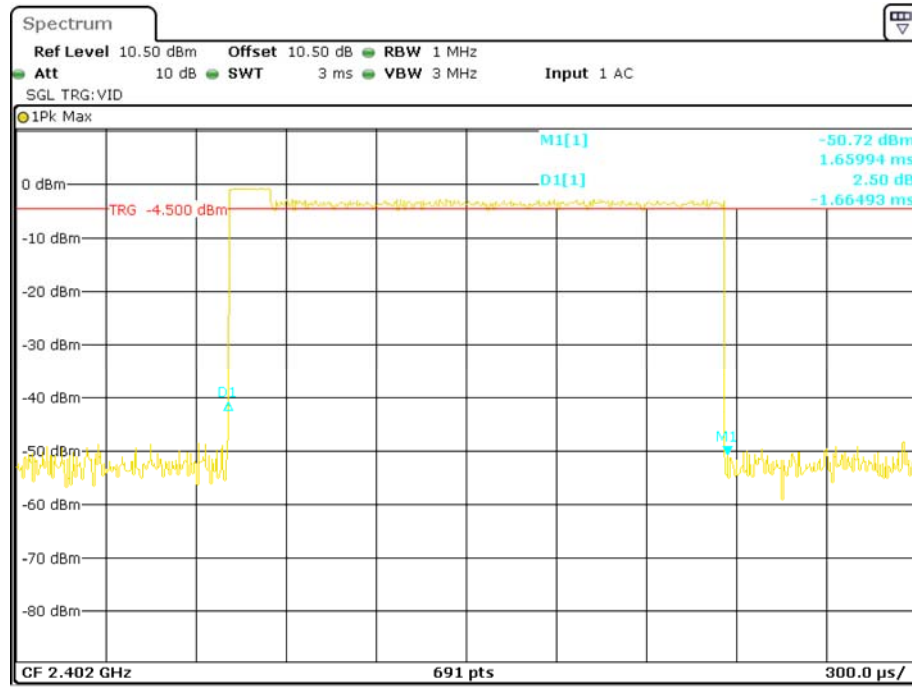
Date: 2.SEP.2015 21:17:12

Pulse time, High Channel, 2DH1



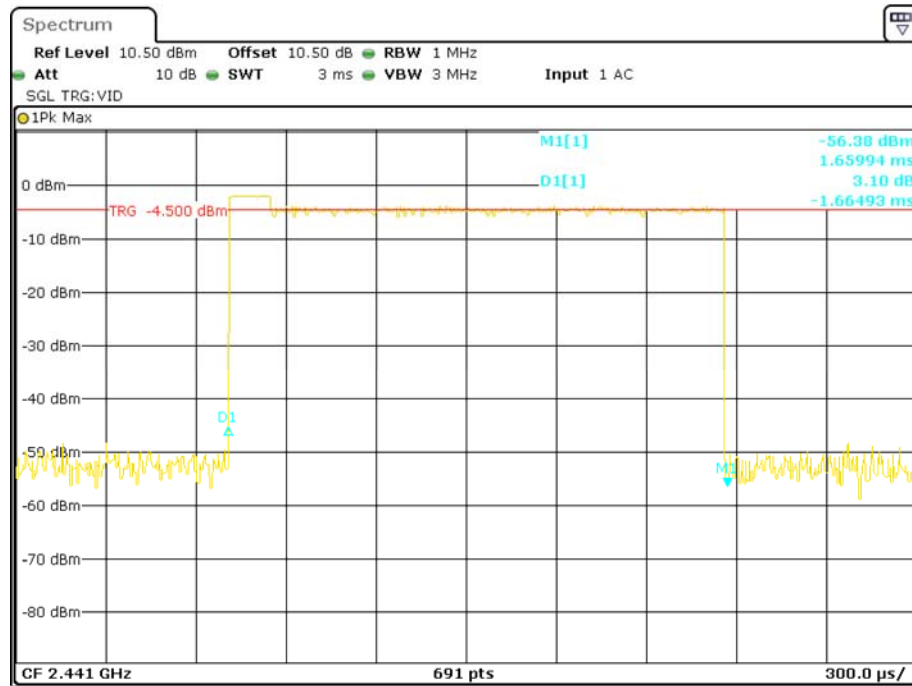
Date: 2.SEP.2015 21:16:43

Pulse time, Low Channel, 2DH3



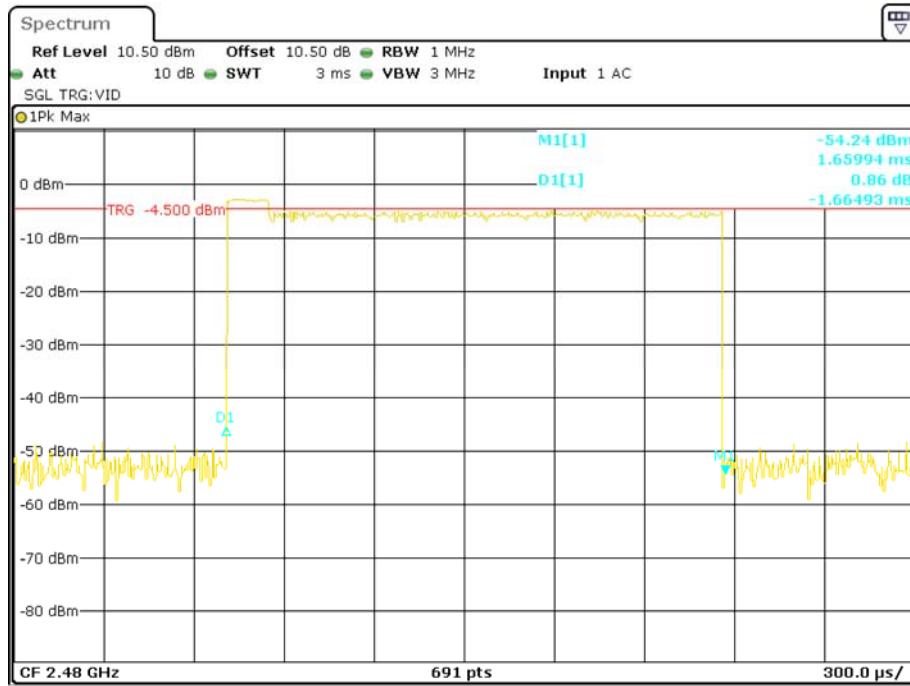
Date: 2.SEP.2015 21:21:57

Pulse time, Middle Channel, 2DH3



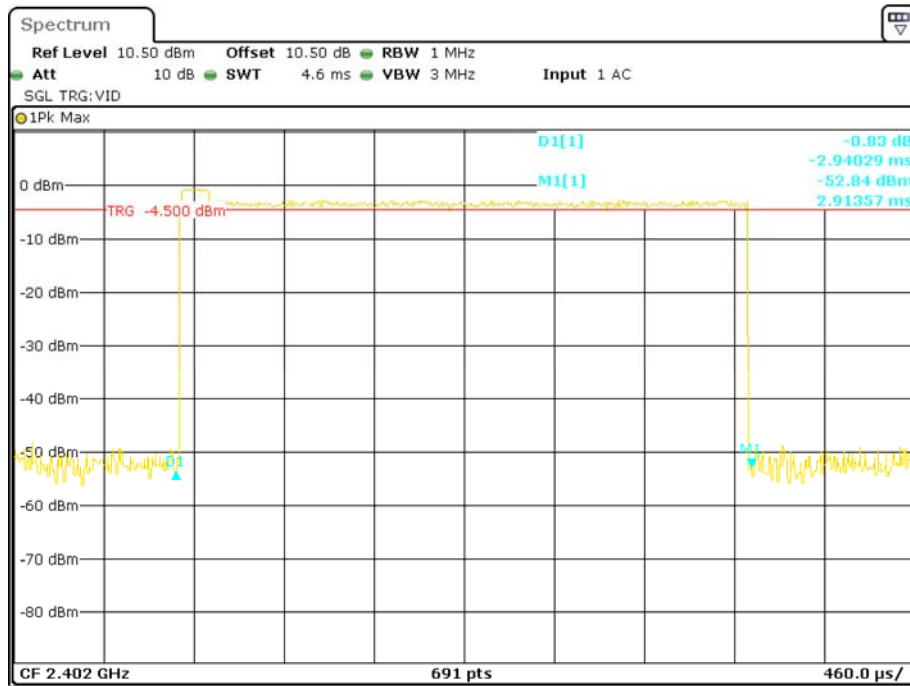
Date: 2.SEP.2015 21:22:23

Pulse time, High Channel, 2DH3



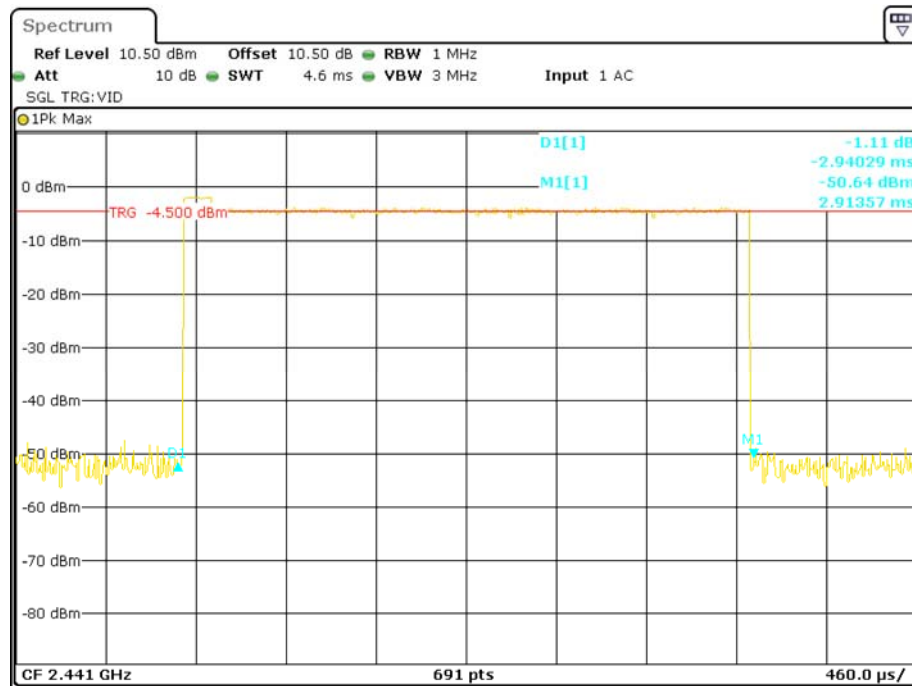
Date: 2.SEP.2015 21:22:47

Pulse time, Low Channel, 2DH5



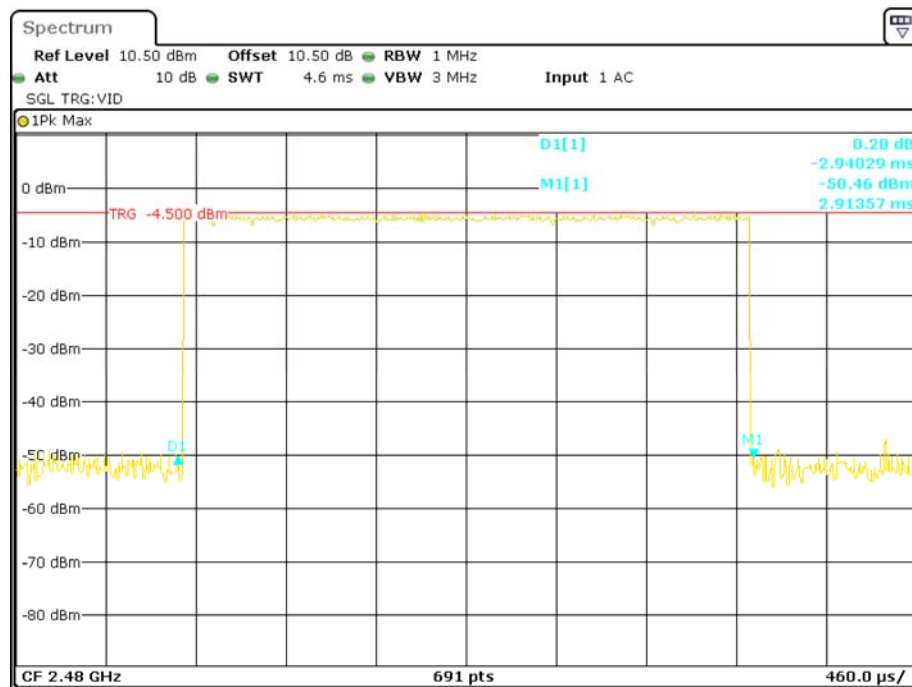
Date: 2.SEP.2015 21:29:43

Pulse time, Middle Channel, 2DH5



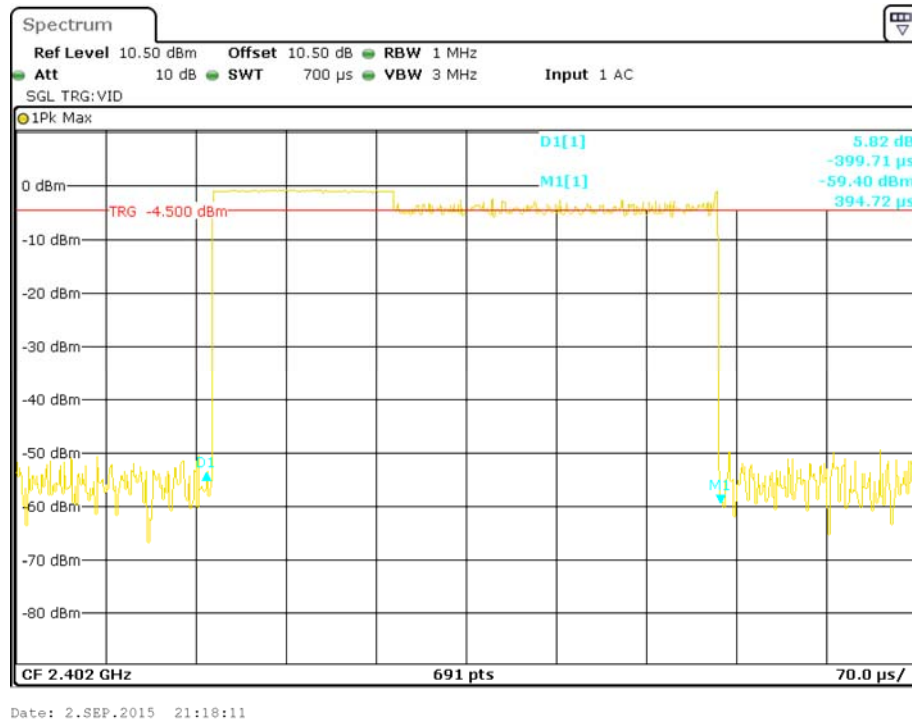
Date: 2.SEP.2015 21:29:12

Pulse time, High Channel, 2DH5

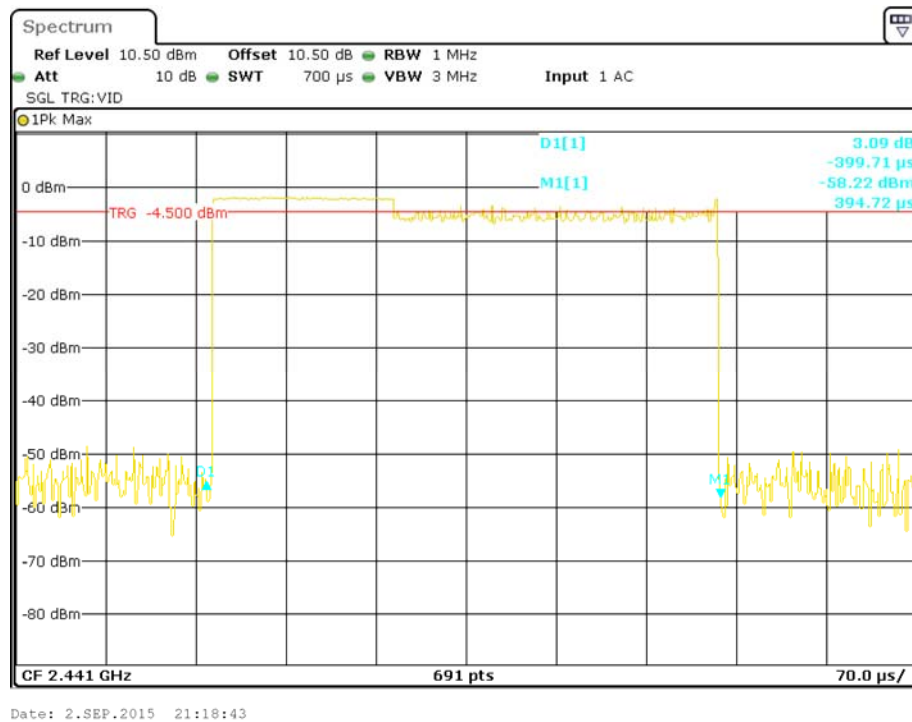


Date: 2.SEP.2015 21:28:49

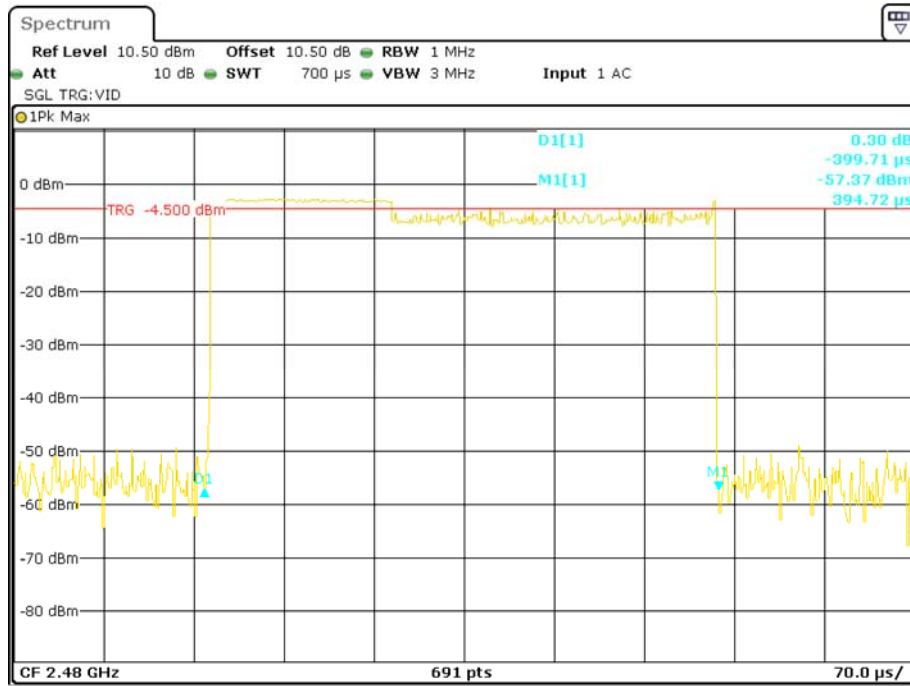
EDR (8DPSK): Pulse time, Low Channel, 3DH1



Pulse time, Middle Channel, 3DH1

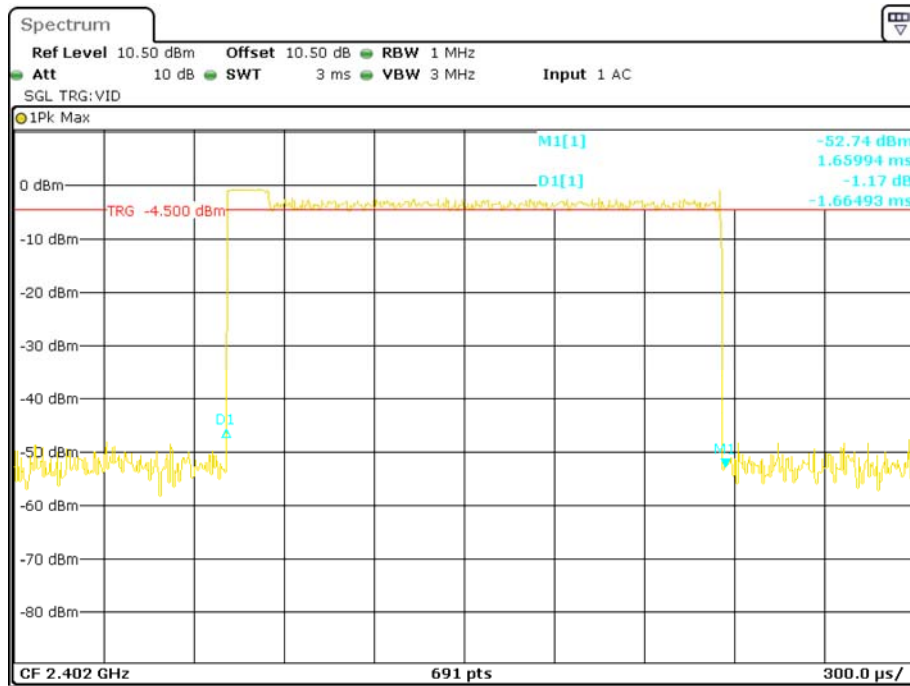


Pulse time, High Channel, 3DH1



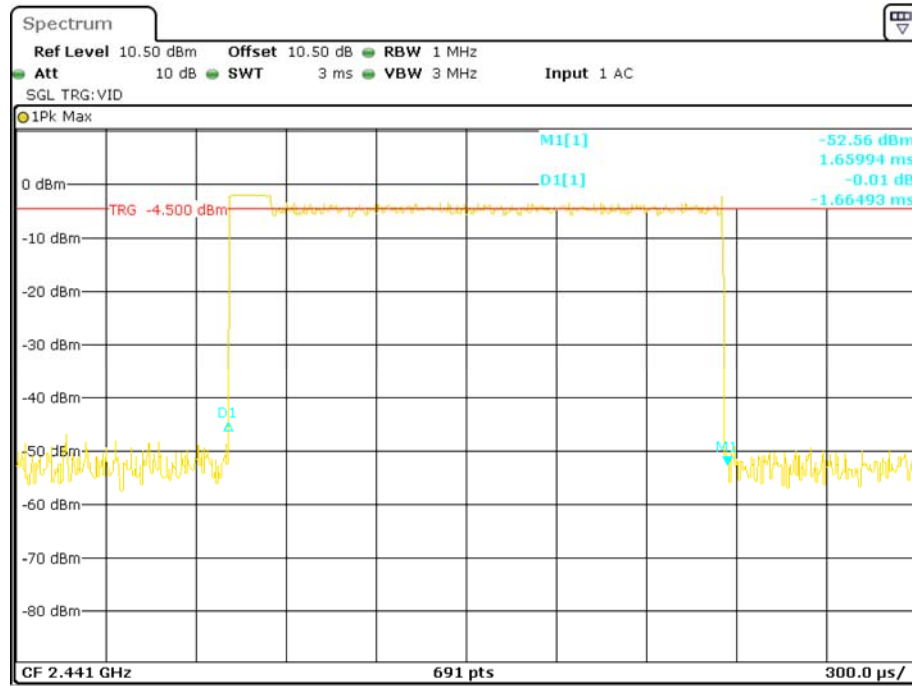
Date: 2.SEP.2015 21:19:10

Pulse time, Low Channel, 3DH3



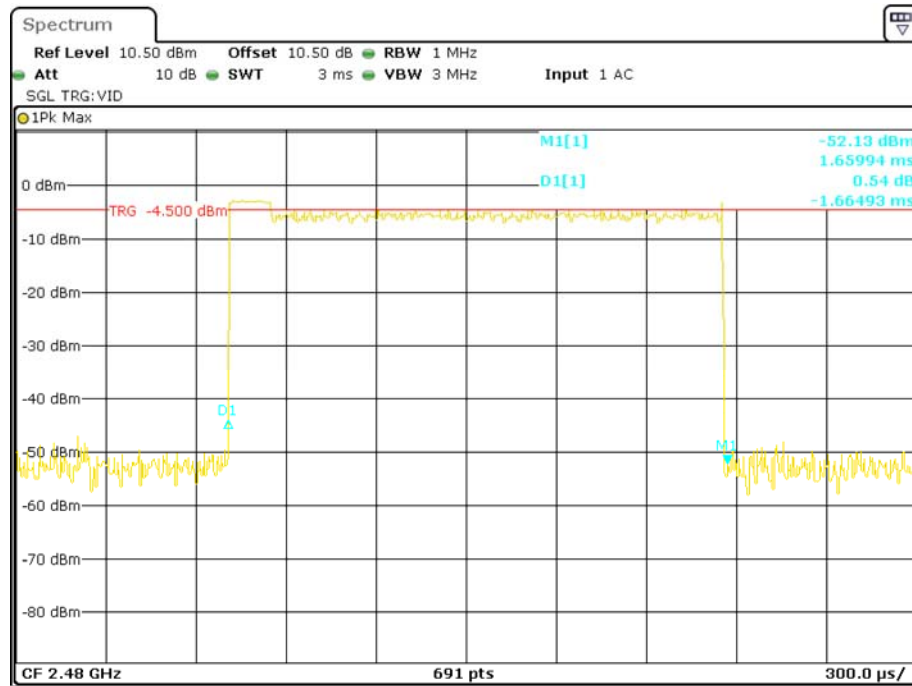
Date: 2.SEP.2015 21:21:34

Pulse time, Middle Channel, 3DH3



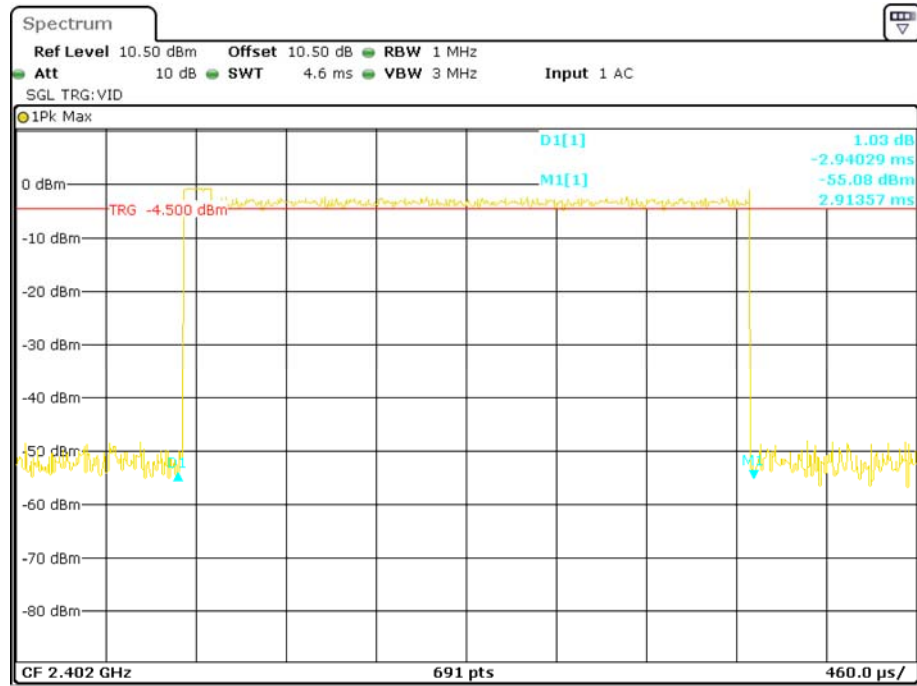
Date: 2.SEP.2015 21:21:09

Pulse time, High Channel, 3DH3



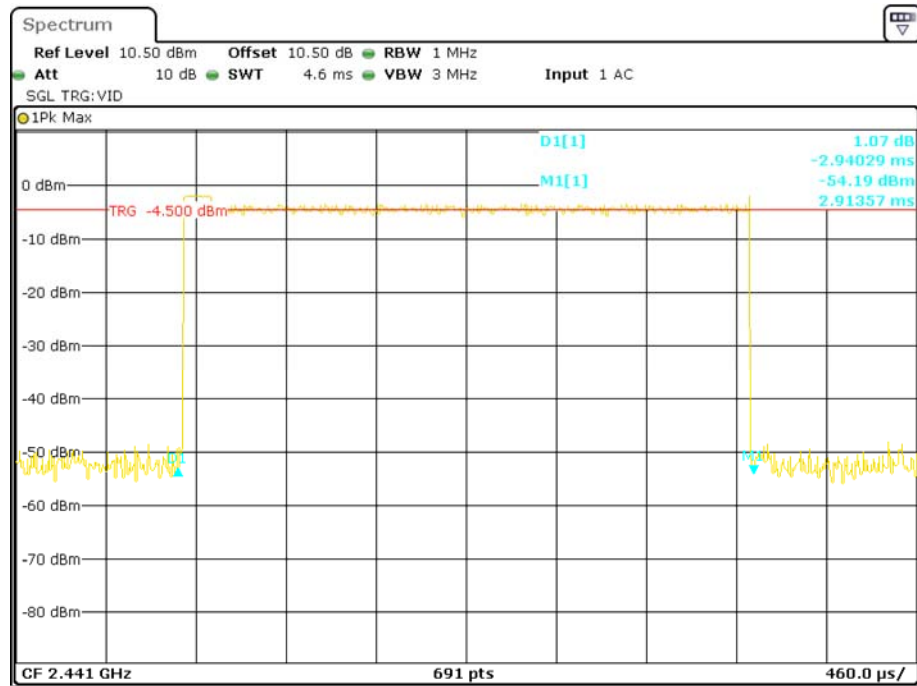
Date: 2.SEP.2015 21:20:36

Pulse time, Low Channel, 3DH5



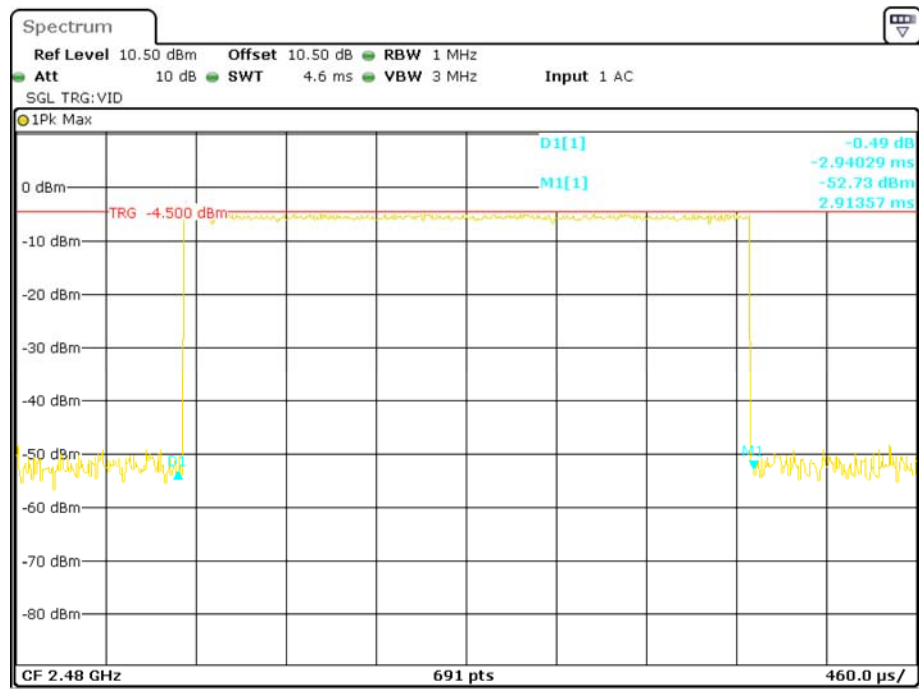
Date: 2.SEP.2015 21:31:41

Pulse time, Middle Channel, 3DH5



Date: 2.SEP.2015 21:31:16

Pulse time, High Channel, 3DH5



Date: 2.SEP.2015 21:30:47

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT**Applicable Standard**

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Power Meter	N1912A	MY5000448	2014-11-03	2015-11-03
HP	Power Sensor	N1921A	MY54210016	2014-11-03	2015-11-03

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jay Li on 2015-09-03.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table.

Mode	Channel	Frequency (MHz)	Peak Output Power		Limit (mW)
			(dBm)	(mW)	
BDR (GFSK)	Low	2402	-0.58	0.87	1000
	Middle	2441	-1.59	0.69	1000
	High	2480	-2.60	0.55	1000
EDR ($\pi/4$-DQPSK)	Low	2402	-0.63	0.86	1000
	Middle	2441	-1.60	0.69	1000
	High	2480	-2.62	0.55	1000
EDR (8DPSK)	Low	2402	-0.60	0.87	1000
	Middle	2441	-1.59	0.69	1000
	High	2480	-2.65	0.54	1000

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

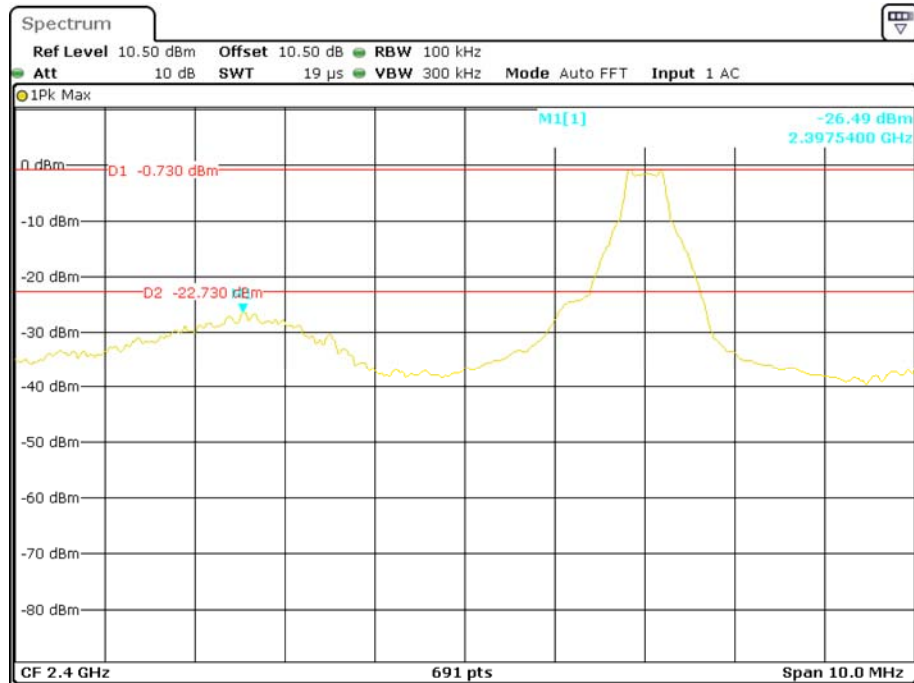
Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jay Li on 2015-09-05.

EUT operation mode: Transmitting

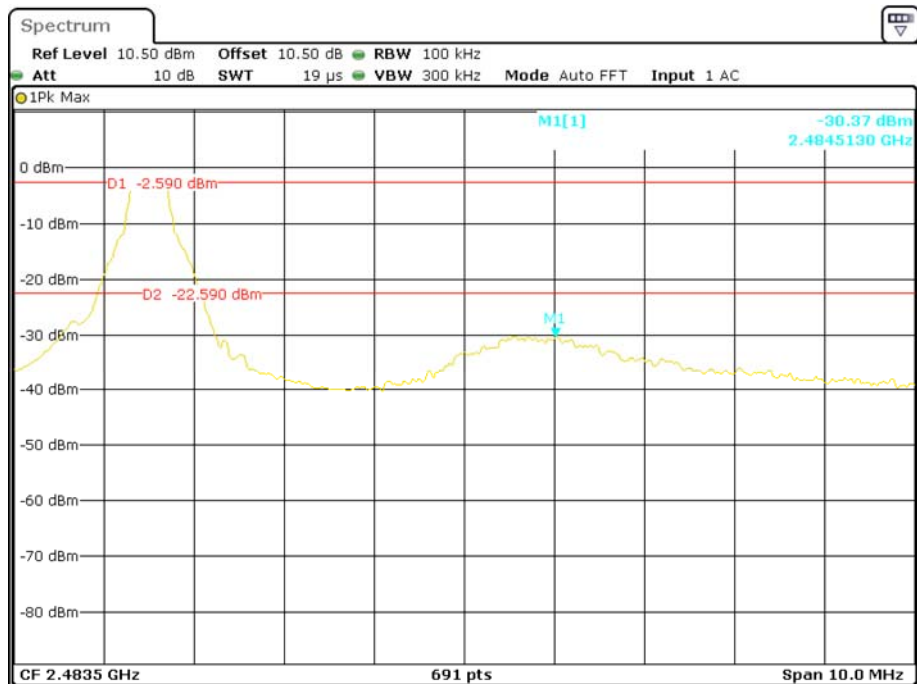
Test Result: Compliance. Please refer to following plots.

BDR (GFSK): Band Edge-Left Side

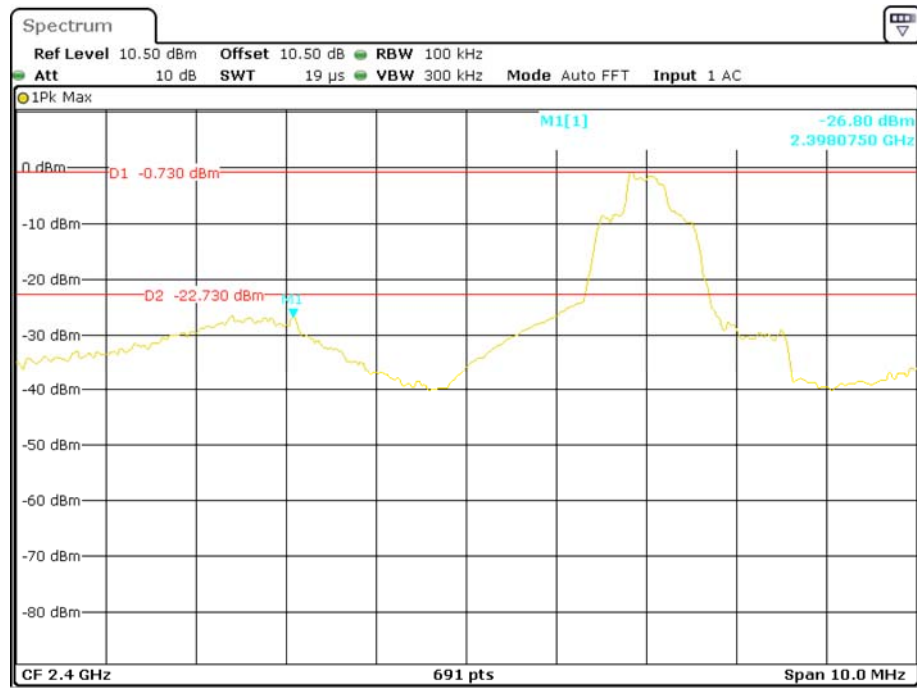


Date: 2.SEP.2015 20:26:46

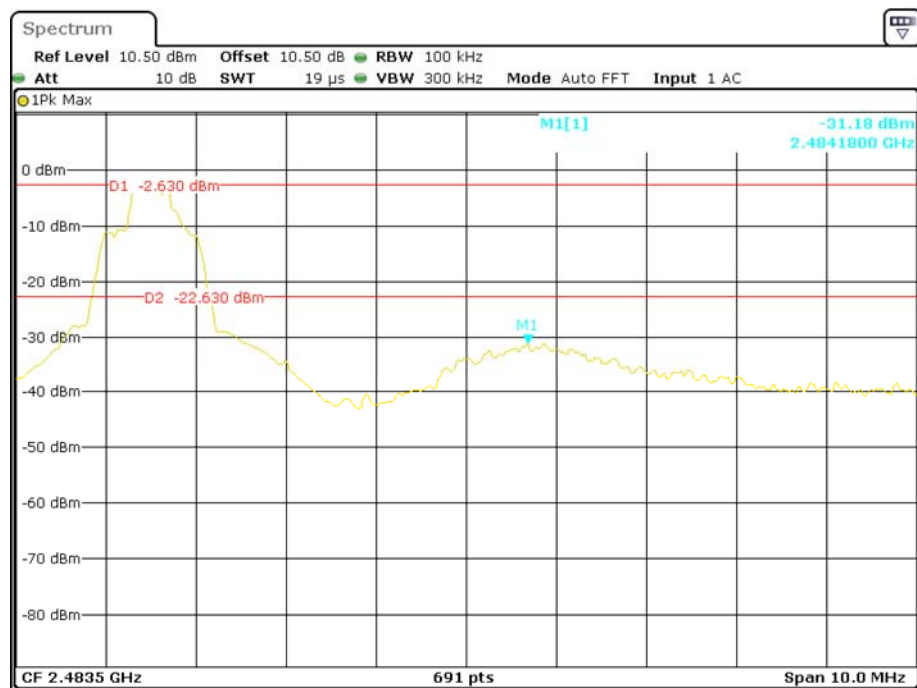
BDR (GFSK): Band Edge-Right Side



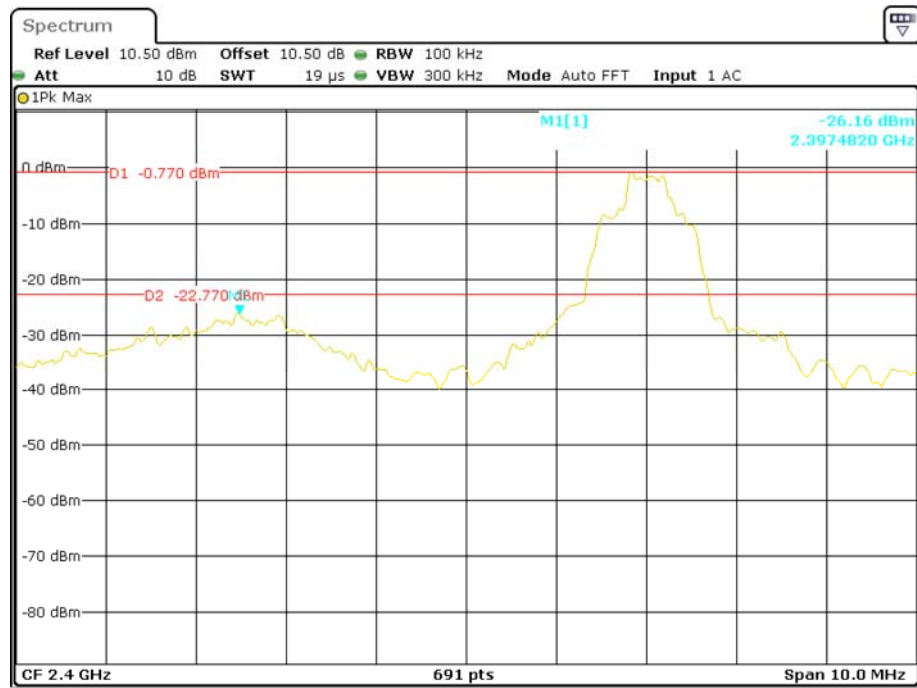
Date: 2.SEP.2015 20:24:12

EDR ($\pi/4$ -DQPSK): Band Edge-Left Side

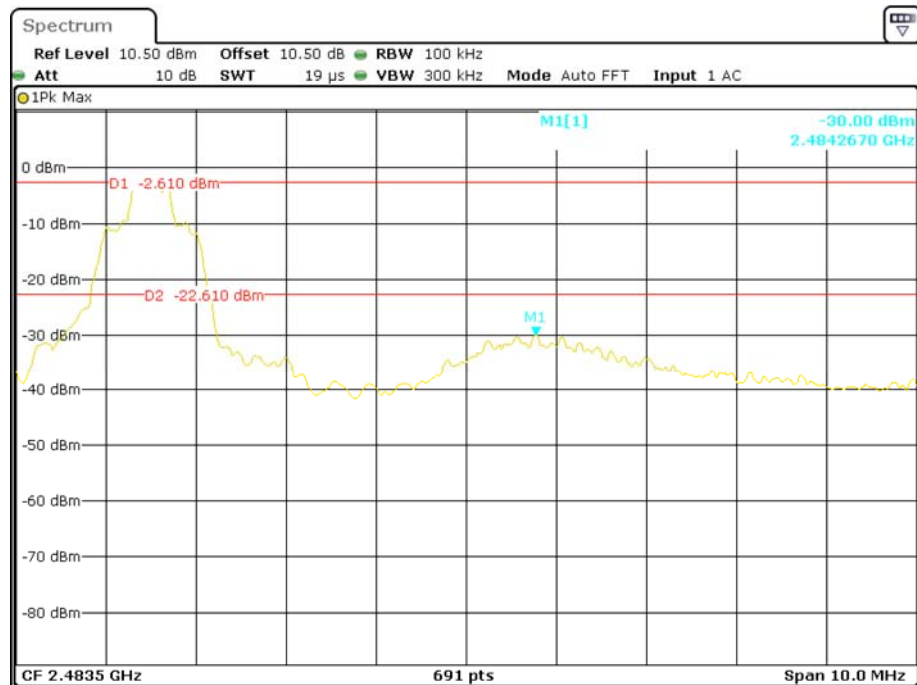
Date: 2.SEP.2015 20:28:42

EDR ($\pi/4$ -DQPSK): Band Edge-Right Side

Date: 2.SEP.2015 20:21:09

EDR (8DPSK): Band Edge-Left Side

Date: 2.SEP.2015 20:29:43

BDR (8DPSK): Band Edge-Right Side

Date: 2.SEP.2015 20:22:30

PRODUCT SIMILARITY DECLARATION LETTER

Shenzhen W.Rider Technology Co., Ltd.
RM821, Dingcheng International Building, Shennan Road, Shenzhen 518031, P. R.
China
Tel: +86-755-8280 7806 Fax: +86-755-8280 7809

2015-8-26

Product Similarity Declaration

To Whom It May Concern,

We, Shenzhen W.Rider Technology Co., Ltd., hereby declare that we have a product named as Bluetooth Speaker (Model number: RD-S118BT) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (SBT603; RD-S115BT; RD-S109BT; RD-S068BT; RD-S071BT; RD-S076BT; RD-S079BT; RD-S615BT; RD-S617BT; RD-S616BT; RD-S058BT; RD-S068BT; RD-S626BT; RD-S069BT; RD-S067BT; RD-S089BT; RD-S059BT; RD-S039BT) on reports and certificate, all the models are identical schematics and battery, only the model number and appearance and color different between them.

No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Weiye Huan

CEO



Weiye Huan

***** END OF REPORT *****